
Appendix A: Table A.1

Charles M. Hansen (with the help of Hanno Priebe)

COMMENTS TO TABLE A.1

Table A-1 is greatly expanded compared with the first edition of this handbook. There are more chemicals, and the information for each of them is much more comprehensive. There are two lists for chemical names. The first list follows the general nomenclature that is used in the first edition. This list follows usage that is commonly found in industrial contexts. The second list of names and also the structures have been compiled by Dr. Hanno Priebe, GE Healthcare. Most of these chemical names originate from AutoNom 2000 (Copyright © 1988-2006, Beilstein-Institut zur Förderung der Chemischen Wissenschaften licensed to Beilstein GmbH and MDL Information Systems GmbH. All rights reserved). These are obviously more correct in many cases.

In Autonom the Beilstein ring system naming convention was chosen. In cases where Autonom failed, the chemical names originate from ACD/Name freeware, version 8.0 (Advanced Chemistry Development, Inc., Toronto ON, Canada, www.acdlabs.com, 2005). In cases where the ACD/Name freeware failed, the name field was left empty.

Most of the HSP entries in Table A-1 are calculated values. Those entries having some experimental confirmation are the original 90 from Reference 1 to Reference 3, together with some from industrial experience at PPG Industries. These are indicated in dark type. The usual procedure for the calculations was to use the procedure given in Chapter 1. The figures were used to find δ_D from boiling point data. δ_p was estimated either with a dipole moment, where this could be found, or by group contributions. There are special problems where the dipole moment is zero or close to zero for symmetrical molecules. In some cases two sets of data are given. δ_H was almost always found by group contributions or by similarity to related compounds. It must be said that none of the parameters are precise. Even use of experimental data does not necessarily confirm the accuracy of the values. This is particularly true where a given HSP parameter is relatively high. Whether or not given solutes dissolve is not sufficient in most cases to narrow the potential error(s) in such cases. Where latent heats are known, Equations 1.6–1.8 do limit potential errors, and experience has shown that for all practical purposes, the values assigned are most useful. Notwithstanding, several parameters have been changed since the first edition appeared. These are indicated with a “*” in the first column of names. However, no changes in the older, published figures have been made for this reason, as this was judged unnecessary.

Many of the solvents for which experimental data were used to help assign the HSP were commercial in origin. This means that purity of the samples was that specified in the given case, but was usually very high, and that a mixture of isomers was present if isomers were possible. This is particularly true of the glycol ethers based on propylene oxide. For these chemicals and others where isomers are possible, the chemical names and structures indicated in Table A-1 are indicative of the type of compound present. It would be impractical to present all the possible isomers.

The HSP for the organic salts formed from equimolar mixtures of organic acids and amines are those reported in Reference 4. The assignments were made on the basis of which polymers or other solutes in a test series dissolved in the given salt. This was compared with how these same solutes behaved in a series of liquids with known HSP. When the same pattern of dissolving or not was found for both a salt and a known liquid, it was assumed that their HSP were the same (or at least very close).

The units used are MPa^{1/2} for the HSP and cc/mole for the molar volume.

REFERENCES

1. Hansen, C.M., The Three Dimensional Solubility Parameter and Solvent Diffusion Coefficient, Doctoral Dissertation, Danish Technical Press, Copenhagen, 1967.
2. Hansen, C.M., The Three Dimensional Solubility Parameter — Key to Paint Component Affinities I. — Solvents, Plasticizers, Polymers, and Resins, *J. Paint Techn.*, 39(505), 104-117, 1967.
3. Hansen, C.M., and Skaarup, K., The Three Dimensional Solubility Parameter — Key to Paint Component Affinities III. — Independent Calculation of the Parameter Components, *J. Paint Techn.* 39(511), 511-514, 1967.
4. Hansen, C.M., Some Aspects of Acid/Base Interactions (in German) (Einige Aspekte der Säure/Base-Wechselwirkung), *Farbe und Lack*, 83(7), 595-598, 1977.

TABLE A.1

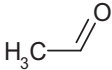
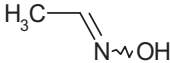
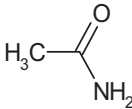
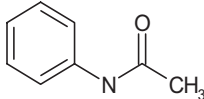
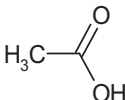
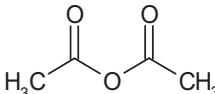
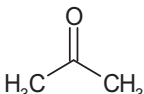
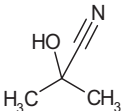
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|-----|---|----------------------------------|------------|----------|---------------------|-----------------|
| 1 | Acetaldehyde* | Acetaldehyde | 14.7 | 12.5 | 7.9 | 56.6 |
| |  | | | | | |
| 2 | Acetaldoxime | Acetaldehyde oxime | 16.3 | 4.0 | 20.2 | 61.2 |
| |  | | | | | |
| 3 | Acetamide | Acetamide | 17.3 | 18.7 | 22.4 | 60.8 |
| |  | | | | | |
| 4 | Acetanilide | N-Phenyl-acetamide | 20.6 | 13.3 | 12.4 | 110.9 |
| |  | | | | | |
| 5 | Acetic Acid | Acetic acid | 14.5 | 8.0 | 13.5 | 57.1 |
| |  | | | | | |
| 6 | Acetic Anhydride | Acetic anhydride | 16.0 | 11.7 | 10.2 | 94.5 |
| |  | | | | | |
| 7 | Acetone | Propan-2-one | 15.5 | 10.4 | 7.0 | 74.0 |
| |  | | | | | |
| 8 | Acetonecyanhydrin | 2-Hydroxy-2-methyl-propionitrile | 16.6 | 12.2 | 15.5 | 94.0 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

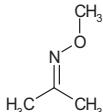
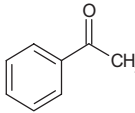
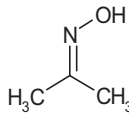
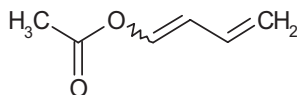
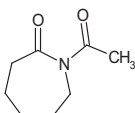
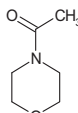
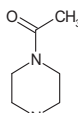
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|-----|---|-----------------------------------|------------|----------|---------------------|-----------------|
| 9 | Acetonemethylloxime  | Propan-2-one O-methyl-oxime | 14.7 | 4.6 | 4.6 | 96.7 |
| 10 | Acetonitrile $\text{H}_3\text{C}-\equiv\text{N}$ | Acetonitrile | 15.3 | 18.0 | 6.1 | 52.6 |
| 11 | Acetophenone  | 1-Phenyl-ethanone | 19.6 | 8.6 | 3.7 | 117.4 |
| 12 | Acetoxime  | Propan-2-one oxime | 16.3 | 3.7 | 10.9 | 80.2 |
| 765 | 1-Acetoxy-1,3-butadiene  | Acetic acid buta-1,3-dienyl ester | 16.1 | 4.4 | 8.3 | 118.4 |
| 13 | N-Acetyl Caprolactam  | 1-Acetyl-azepan-2-one | 18.9 | 8.7 | 4.8 | 155.0 |
| 14 | N-Acetyl Morpholine  | 1-Morpholin-4-yl-ethanone | 18.3 | 5.3 | 7.8 | 115.6 |
| 15 | N-Acetyl Piperidine  | 1-Piperazin-1-yl-ethanone | 18.5 | 10.0 | 6.5 | 125.8 |

TABLE A.1 (CONTINUED)

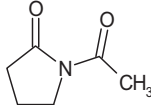
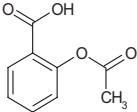
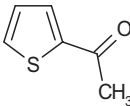
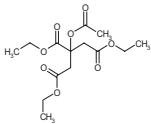
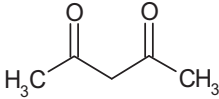
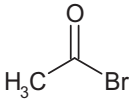
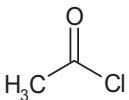
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|------|---|--|------------|----------|---------------------|-----------------|
| 16 | N-Acetyl Pyrrolidone  | 1-Acetyl-pyrrolidin-2-one | 17.8 | 13.1 | 8.3 | 127.0 |
| 1116 | Acetyl Salicylic Acid  | 2-Acetoxy-benzoic acid | 19.0 | 6.6 | 9.3 | 133.5 |
| 785 | 2-Acetyl Thiophene  | 1-Thiophen-2-yl-ethanone | 19.1 | 12.2 | 9.3 | 108.0 |
| 1219 | Acetyl Triethyl Citrate  | 3-Acetoxy-3-ethoxycarbonyl-pentanedioic acid diethyl ester | 16.6 | 3.5 | 8.6 | 279.9 |
| 17 | Acetylacetone  | Pentane-2,4-dione | 16.1 | 11.2 | 6.2 | 103.0 |
| 18 | Acetyl bromide  | Acetyl bromide | 16.7 | 10.6 | 5.2 | 74.0 |
| 19 | Acetyl chloride  | Acetyl chloride | 16.2 | 11.2 | 5.8 | 71.4 |
| 20 | Acetylene (Ethyne) HC≡CH | Ethyne | 14.4 | 4.2 | 11.9 | 42.1 |

TABLE A.1 (CONTINUED)

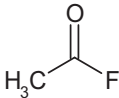
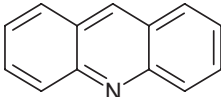
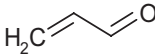
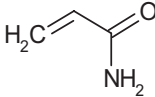
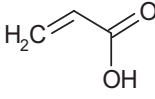
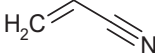
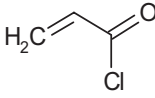
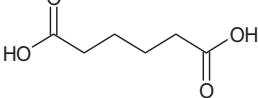
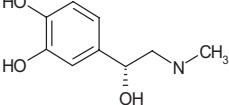
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|--|------------|----------|---------------------|-----------------|
| 21 | Acetylfluoride | Acetyl fluoride | 14.7 | 14.0 | 5.7 | 62.0 |
| |  | | | | | |
| 860 | Acridine | Acridine | 21.7 | 5.9 | 2.0 | 163.0 |
| |  | | | | | |
| 22 | Acrolein | Propenal | 15.0 | 7.2 | 7.8 | 66.7 |
| |  | | | | | |
| 23 | Acrylamide | Acrylamide | 15.8 | 12.1 | 12.8 | 63.4 |
| |  | | | | | |
| 24 | Acrylic Acid | Acrylic acid | 17.7 | 6.4 | 14.9 | 68.5 |
| |  | | | | | |
| 25 | Acrylonitrile | Acrylonitrile | 16.0 | 12.8 | 6.8 | 67.1 |
| |  | | | | | |
| 26 | Acrylylchloride | Acryloyl chloride | 16.2 | 11.6 | 5.4 | 81.3 |
| |  | | | | | |
| 1152 | Adipic Acid (1,6-Hexanedioic) | Hexanedioic acid | 17.1 | 9.0 | 14.6 | 107.5 |
| |  | | | | | |
| 1195 | Adrenaline | 4-((R)-1-Hydroxy-2-methylamino-ethyl)-benzene-1,2-diol | 20.5 | 8.7 | 19.9 | 154.5 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

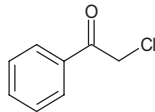
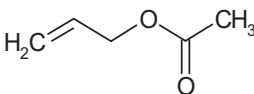
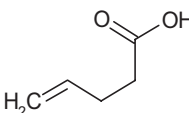
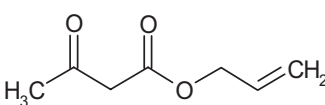
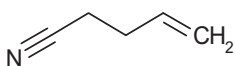
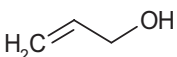
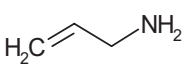
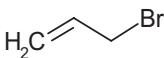
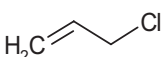
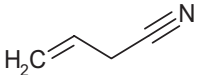
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|-----------------------------------|------------|----------|---------------------|-----------------|
| 1088 | Alfa-Chloro Acetophenone | 2-Chloro-1-phenyl- ethanone | 20.0 | 9.6 | 5.7 | 116.8 |
| |  | | | | | |
| 27 | Allyl Acetate | Acetic acid allyl ester | 15.7 | 4.5 | 8.0 | 108.5 |
| |  | | | | | |
| 28 | Allyl Acetic Acid | Pent-4-enoic acid | 16.7 | 4.7 | 11.3 | 102.1 |
| |  | | | | | |
| 769 | Allyl Acetoacetate | 3-Oxo-butyric acid allyl ester | 15.9 | 6.9 | 8.6 | 137.8 |
| |  | | | | | |
| 29 | Allyl Acetonitrile (4-Pentenitrile) | Pent-4-enitrile | 16.3 | 11.2 | 5.0 | 98.5 |
| |  | | | | | |
| 30 | Allyl Alcohol | Prop-2-en-1-ol | 16.2 | 10.8 | 16.8 | 68.4 |
| |  | | | | | |
| 31 | Allyl Amine | Allylamine | 15.5 | 5.7 | 10.6 | 74.9 |
| |  | | | | | |
| 32 | Allyl Bromide (3-Bromoprene) | 3-Bromo-propene | 16.5 | 7.3 | 4.9 | 86.5 |
| |  | | | | | |
| 33 | Allyl Chloride | 3-Chloro-propene | 17.0 | 6.2 | 2.3 | 82.3 |
| |  | | | | | |
| 34 | Allyl Cyanide | But-3-enitrile | 16.0 | 14.3 | 5.6 | 80.5 |
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TABLE A.1 (CONTINUED)

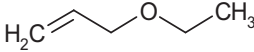
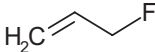
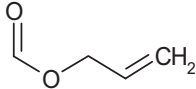
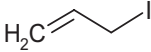
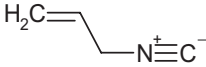
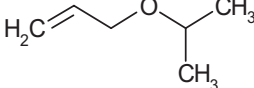
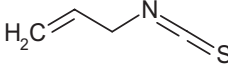
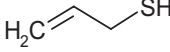
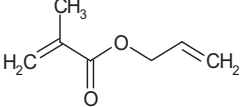
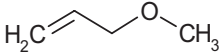
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|-----------------------------------|------------|----------|---------------------|-----------------|
| 35 | Allyl Ethylether | 3-Ethoxy-propene | 15.0 | 4.8 | 5.1 | 112.6 |
| |  | | | | | |
| 36 | Allyl Fluoride | 3-Fluoro-propene | 14.9 | 6.4 | 1.0 | 71.5 |
| |  | | | | | |
| 37 | Allyl Formate | Formic acid allyl ester | 15.7 | 5.4 | 8.8 | 91.0 |
| |  | | | | | |
| 38 | Allyl Iodide | 3-Iodo-propene | 17.4 | 6.4 | 3.3 | 90.8 |
| |  | | | | | |
| 39 | Allyl Isocyanide | 3-Isocyano-propene | 16.1 | 13.0 | 5.4 | 84.5 |
| |  | | | | | |
| 967 | Allyl Isopropyl Ether | 3-Isopropoxy-propene | 15.0 | 4.1 | 7.1 | 129.0 |
| |  | | | | | |
| 40 | Allyl Isothiocyanate | 3-Isothiocyanato-propene | 17.0 | 11.3 | 8.5 | 98.0 |
| |  | | | | | |
| 42 | Allyl Mercaptan | Prop-2-ene-1-thiol | 16.4 | 6.2 | 7.9 | 80.2 |
| |  | | | | | |
| 1018 | Allyl Methacrylate | 2-Methyl-acrylic acid allyl ester | 15.2 | 4.1 | 7.5 | 134.8 |
| |  | | | | | |
| 43 | Allyl Methylether | 3-Methoxy-propene | 15.0 | 4.3 | 5.9 | 93.7 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

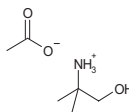
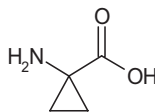
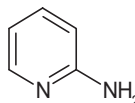
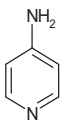
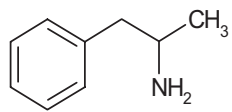
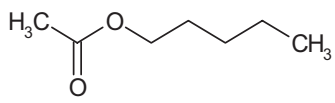
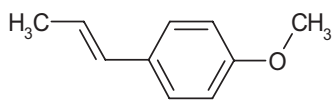
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|---|------------|----------|---------------------|-----------------|
| 1181 | 2-Amino-2-Methyl-1-Propanol/Acetic Acid | Acetate 2-hydroxy-1,1-dimethyl-ethyl-ammonium | 17.2 | 22.5 | 23.3 | |
| |  | | | | | |
| 1206 | 1-Aminocyclopropane Carboxylic Acid | 1-Amino-cyclopropane-carboxylic acid | 17.0 | 6.3 | 13.6 | 93.7 |
| |  | | | | | |
| 1090 | 2-Amino Pyridine | Pyridin-2-ylamine | 20.4 | 8.1 | 12.2 | 94.1 |
| |  | | | | | |
| 1205 | 4-Amino Pyridine | Pyridin-4-ylamine | 20.4 | 16.1 | 12.9 | 87.1 |
| |  | | | | | |
| 44 | Ammonia NH ₃ | Ammonia | 13.7 | 15.7 | 17.8 | 20.8 |
| 1179 | Amphetamine | 1-Methyl-2-phenyl-ethylamine | 17.5 | 4.3 | 6.3 | 148.1 |
| |  | | | | | |
| 45 | Amyl Acetate | Acetic acid pentyl ester | 15.8 | 3.3 | 6.1 | 148.0 |
| |  | | | | | |
| 699 | Anethole (Trans) | 1-Methoxy-4-((E)-propenyl)-benzene | 19.0 | 4.3 | 8.7 | 150.0 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

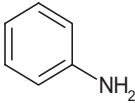
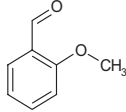
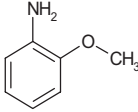
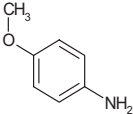
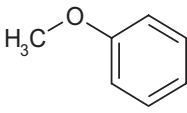
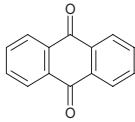
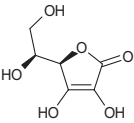
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|--|------------|----------|---------------------|-----------------|
| 46 | Aniline | Phenylamine | 19.4 | 5.1 | 10.2 | 91.5 |
| |  | | | | | |
| 1113 | Anisaldehyde (2-Methoxy Benzaldehyde) | 2-Methoxy-benzaldehyde | 19.4 | 11.9 | 8.3 | 120.8 |
| |  | | | | | |
| 949 | Anisidine (2-Methoxyaniline) | 2-Methoxy-phenylamine | 19.5 | 5.4 | 11.4 | 112.2 |
| |  | | | | | |
| 47 | p-Anisidine (Methoxy Aniline) | 4-Methoxy-phenylamine | 19.9 | 6.5 | 11.3 | 113.3 |
| |  | | | | | |
| 48 | Anisole | Methoxy-benzene | 17.8 | 4.1 | 6.7 | 119.1 |
| |  | | | | | |
| 1099 | 9,10-Antraquinone | Antraquinone | 20.3 | 7.6 | 4.8 | 145.6 |
| |  | | | | | |
| 1163 | Ascorbic Acid | (R)-5-((S)-1,2-Dihydroxy-ethyl)-3,4-dihydroxy-5H-furan-2-one | 18.0 | 12.6 | 27.6 | 106.7 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

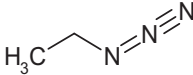
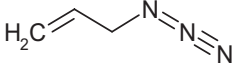
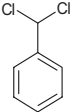
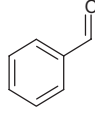
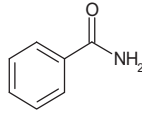

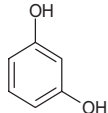
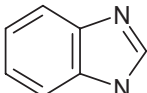
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|--|------------------------|------------|----------|---------------------|-----------------|
| 49 | Azidoethane  | Azido-ethane | 15.9 | 8.9 | 12.9 | 79.0 |
| 50 | 3-Azidopropene  | 3-Azido-propene | 16.8 | 7.7 | 13.4 | 83.0 |
| 807 | Benzal Chloride  | Dichloromethyl-benzene | 19.9 | 6.6 | 2.4 | 134.2 |
| 51 | Benzaldehyde  | Benzaldehyde | 19.4 | 7.4 | 5.3 | 101.5 |
| 1055 | Benzamide  | Benzamide | 21.2 | 14.7 | 11.2 | 90.3 |
| 52 | Benzene  | Benzene | 18.4 | 0 | 2.0 | 89.4 |
| 53 | 1,3-Benzenediol  | Benzene-1,3-diol | 18.0 | 8.4 | 21.0 | 87.5 |
| 894 | Benzimidazole  | 1H-Benzoimidazole | 20.6 | 14.9 | 11.0 | 102.7 |

TABLE A.1 (CONTINUED)

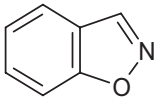
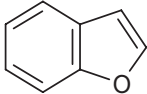
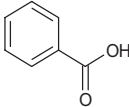
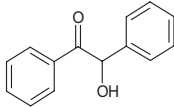
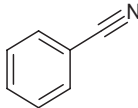
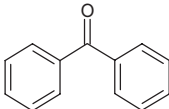
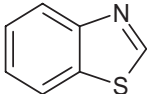
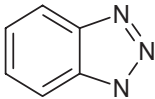
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|---------------------------------|------------|----------|---------------------|-----------------|
| 893 | Benzisoxazole | Benzo[d]isoxazole | 20.6 | 11.5 | 8.8 | 100.7 |
| |  | | | | | |
| 892 | 2,3-Benzofuran (Cumaron) | Benzofuran | 18.7 | 5.1 | 5.7 | 110.2 |
| |  | | | | | |
| 54 | Benzoic Acid | Benzoic acid | 18.2 | 6.9 | 9.8 | 113.1 |
| |  | | | | | |
| 891 | Benzoin | 2-Hydroxy-1,2-diphenyl-ethanone | 19.9 | 9.7 | 10.7 | 187.7 |
| |  | | | | | |
| 55 | Benzonitrile | Benzonitrile | 17.4 | 9.0 | 3.3 | 102.6 |
| |  | | | | | |
| 56 | Benzophenone | Diphenyl-methanone | 19.6 | 8.6 | 5.7 | 164.2 |
| |  | | | | | |
| 962 | Benzothiazole | Benzothiazole | 20.6 | 5.2 | 8.4 | 108.5 |
| |  | | | | | |
| 1053 | 1,2,3-Benzotriazole | 1H-Benzotriazole | 18.7 | 15.6 | 12.4 | 96.2 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

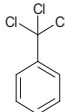
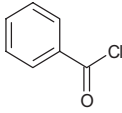
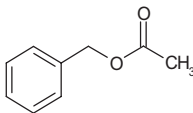
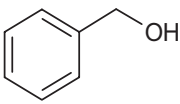
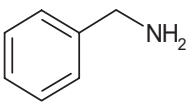
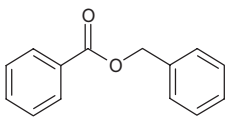
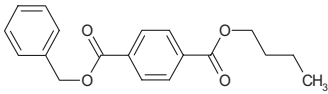
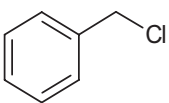
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|--|---|------------|----------|---------------------|-----------------|
| 866 | Benzotrichloride  | Trichloromethyl- benzene | 20.2 | 6.6 | 3.2 | 142.1 |
| 57 | Benzoyl Chloride  | Benzoyl chloride | 20.7 | 8.2 | 4.5 | 116.0 |
| 903 | Benzyl Acetate  | Acetic acid benzyl ester | 18.3 | 5.7 | 6.0 | 142.8 |
| 58 | Benzyl Alcohol  | Phenyl-methanol | 18.4 | 6.3 | 13.7 | 103.6 |
| 971 | Benzyl Amine  | Benzylamine | 19.2 | 4.6 | 11.7 | 109.2 |
| 1149 | Benzyl Benzoate  | Benzoic acid benzyl ester | 20.0 | 5.1 | 5.2 | 191.2 |
| 59 | Benzyl Butyl Phthalate  | Terephthalic acid 1- benzyl ester 4-butyl ester | 19.0 | 11.2 | 3.1 | 306.0 |
| 60 | Benzyl Chloride  | Chloromethyl-benzene | 18.8 | 7.1 | 2.6 | 115.0 |

TABLE A.1 (CONTINUED)

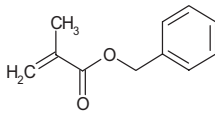
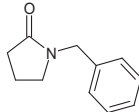
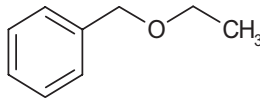
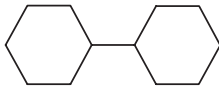
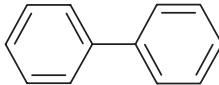
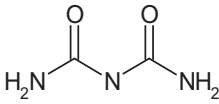
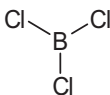
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|--|---------------------------------------|------------|----------|---------------------|-----------------|
| 61 | Benzyl Methacrylate  | 2-Methyl-acrylic acid benzyl ester | 16.8 | 4.1 | 4.1 | 167.8 |
| 62 | N-Benzyl Pyrrolidone  | 1-Benzyl-pyrrolidin-2-one | 18.2 | 6.1 | 5.6 | 160.0 |
| 887 | Benzylethyl Ether  | Ethoxymethyl-benzene | 18.4 | 3.8 | 3.8 | 144.2 |
| 867 | Bicyclohexyl  | Bicyclohexyl | 18.6 | 0 | 0 | 188.5 |
| 868 | Biphenyl  | Biphenyl | 19.7 | 1.0 | 2.0 | 155.1 |
| 1066 | Biuret  | Dicarbonimidic diamide | 20.0 | 14.6 | 18.8 | 70.3 |
| 64 | Borine Carbonyl $\text{H}_3\text{B}^- \equiv \text{O}^+$ | | 17.0 | 10.2 | 6.9 | 41.8 |
| 1172 | Boron Trichloride  | | 16.6 | 2.5 | 0 | 85.3 |
| 1170 | Bromine (P From Group Cont.) | Bromine | 18.2 | 14.9 | 0 | 51.5 |
| 1213 | Bromine (P From Dipole Moment) | Bromine | 18.2 | 2.1 | 0 | 51.5 |

TABLE A.1 (CONTINUED)

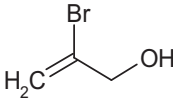
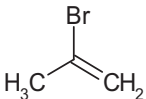
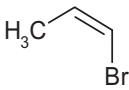
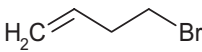
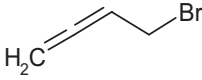
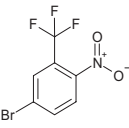
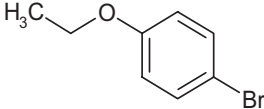
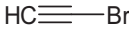
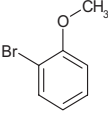
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|-----|---|--|------------|----------|---------------------|-----------------|
| 65 | 2-Bromo Allyl Alcohol | 2-Bromo-prop-2-en-1-ol | 17.1 | 9.9 | 16.2 | 84.5 |
| |  | | | | | |
| 66 | 2-Bromo Propene | 2-Bromo-propene | 16.1 | 6.0 | 4.9 | 88.8 |
| |  | | | | | |
| 67 | 1-Bromo Propene (CIS) | (Z)-1-Bromo-propene | 16.3 | 6.4 | 5.0 | 84.7 |
| |  | | | | | |
| 68 | 4-Bromo-1-Butene | 4-Bromo-but-1-ene | 16.5 | 6.0 | 4.5 | 102.0 |
| |  | | | | | |
| 69 | 4-Bromo-1,2-Butadiene | 4-Bromo-buta-1,2-diene | 17.0 | 6.5 | 4.7 | 93.3 |
| |  | | | | | |
| 854 | 5-Bromo-2-Nitrobenzotrifluoride | 4-Bromo-1-nitro-2-trifluoromethylbenzene | 20.0 | 6.0 | 4.9 | 150.1 |
| |  | | | | | |
| 815 | 1-Bromo-4-Ethoxy Benzene | 1-Bromo-4-ethoxybenzene | 19.5 | 7.7 | 5.3 | 140.0 |
| |  | | | | | |
| 70 | Bromoacetylene | Bromo-ethyne | 15.7 | 9.9 | 5.6 | 67.7 |
| |  | | | | | |
| 800 | o-Bromoanisole | 1-Bromo-2-methoxybenzene | 19.8 | 8.4 | 6.7 | 124.5 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

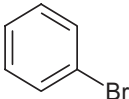
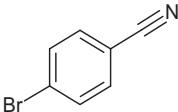
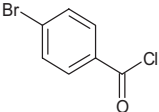
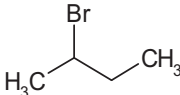
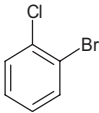
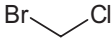
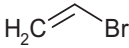
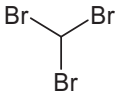
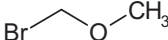
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|-----|---|------------------------------|------------|----------|---------------------|-----------------|
| 71 | Bromobenzene | Bromo-benzene | 20.5 | 5.5 | 4.1 | 105.3 |
| |  | | | | | |
| 806 | p-Bromobenzonitrile | 4-Bromo-benzonitrile | 20.4 | 9.3 | 5.8 | 113.8 |
| |  | | | | | |
| 805 | p-Bromobenzoyl Chloride | 4-Bromo-benzoyl chloride | 20.2 | 6.5 | 5.5 | 137.2 |
| |  | | | | | |
| 729 | 2-Bromobutane | 2-Bromo-butane | 16.3 | 7.7 | 4.4 | 109.5 |
| |  | | | | | |
| 802 | o-Bromochlorobenzene | 1-Bromo-2-chloro- benzene | 20.3 | 7.7 | 4.6 | 116.9 |
| |  | | | | | |
| 72 | Bromochloromethane | Bromo-chloro-methane | 17.3 | 5.7 | 3.5 | 65.0 |
| |  | | | | | |
| 73 | Bromoethylene | Bromo-ethene | 16.1 | 6.3 | 2.3 | 71.6 |
| |  | | | | | |
| 74 | Bromoform | Tribromo-methane | 21.4 | 4.1 | 6.1 | 87.5 |
| |  | | | | | |
| 748 | Bromomethyl Methyl Ether | Bromo-methoxy- methane | 16.9 | 8.5 | 7.0 | 81.6 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

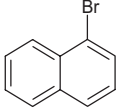
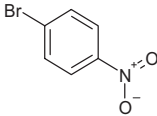
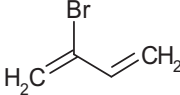
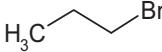
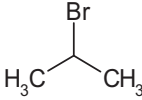
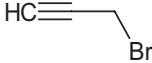
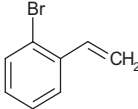
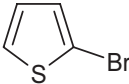
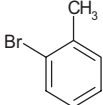
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|------------------------------|------------|----------|---------------------|-----------------|
| 75 | 1-Bromonaphthalene | 1-Bromo-naphthalene | 20.3 | 3.1 | 4.1 | 140.0 |
| |  | | | | | |
| 803 | p-Bromonitrobenzene | 1-Bromo-4-nitro- benzene | 20.9 | 9.9 | 5.9 | 103.7 |
| |  | | | | | |
| 76 | Bromoprene | 2-Bromo-buta-1,3-diene | 16.9 | 6.4 | 4.7 | 95.2 |
| |  | | | | | |
| 1124 | 1-Bromopropane | 1-Bromo-propane | 16.4 | 7.9 | 4.8 | 90.9 |
| |  | | | | | |
| 1125 | 2-Bromopropane | 2-Bromo-propane | 16.1 | 8.3 | 4.7 | 93.6 |
| |  | | | | | |
| 77 | 3-Bromopropyne | 3-Bromo-propyne | 18.1 | 6.5 | 5.3 | 75.3 |
| |  | | | | | |
| 710 | o-Bromostyrene | 1-Bromo-2-vinyl- benzene | 19.5 | 5.2 | 5.3 | 130.0 |
| |  | | | | | |
| 78 | 2-Bromothiophene | 2-Bromo-thiophene | 20.1 | 5.2 | 4.6 | 96.8 |
| |  | | | | | |
| 713 | o-Bromotoluene | 1-Bromo-2-methyl- benzene | 19.3 | 5.0 | 4.2 | 119.0 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

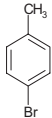
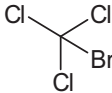
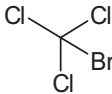
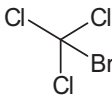
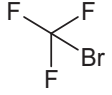
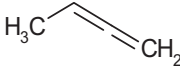
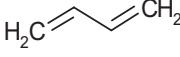
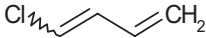
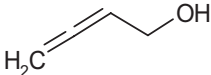
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|-----|---|------------------------------|------------|----------|---------------------|-----------------|
| 714 | p-Bromotoluene  | 1-Bromo-4-methyl- benzene | 19.3 | 6.8 | 4.1 | 122.9 |
| 743 | Bromotrichloro Methane (P from Dipole Moment)  | Bromo-trichloro- methane | 18.3 | 0.8 | 0 | 99.2 |
| 744 | Bromotrichloro Methane (P and H from Group cont.)  | Bromo-trichloro- methane | 18.3 | 8.1 | 6.0 | 99.2 |
| 745 | Bromotrichloro Methane (P from Group cont.)  | Bromo-trichloro- methane | 18.3 | 8.1 | 0 | 99.2 |
| 79 | Bromotrifluoromethane (Freon 1381)  | Bromo-trifluoro- methane | 9.6 | 2.4 | 0 | 97.0 |
| 80 | 1,2-Butadiene  | Buta-1,2-diene | 14.7 | 1.7 | 6.2 | 82.3 |
| 81 | 1,3-Butadiene  | Buta-1,3-diene | 14.8 | 2.8 | 5.6 | 83.2 |
| 82 | 1,3-Butadiene-1-Chloro  | 1-Chloro-buta-1,3-diene | 15.6 | 8.5 | 2.0 | 92.2 |
| 83 | 2,3-Butadiene-1-ol  | Buta-2,3-dien-1-ol | 16.2 | 6.6 | 16.8 | 76.5 |

TABLE A.1 (CONTINUED)

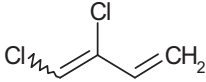
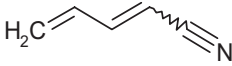
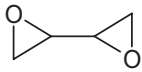
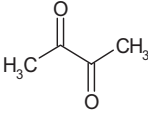
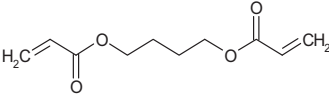
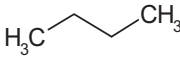
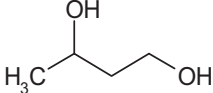
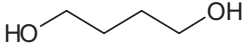
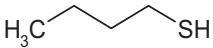
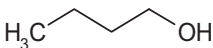
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|-----|---|--|------------|----------|---------------------|-----------------|
| 84 | 1,3-Butadiene-1,2-Di-Chloro  | 1,2-Dichloro-buta-1,3- diene | 17.0 | 10.7 | 2.8 | 102.5 |
| 85 | Butadiene-4-Cyano  | Penta-2,4-dienenitrile | 16.2 | 11.7 | 5.2 | 93.7 |
| 86 | Butadienedioxide  | [2,2']Bioxiranyl | 18.3 | 14.4 | 6.2 | 77.8 |
| 87 | Butadione  | Butane-2,3-dione | 15.7 | 5.1 | 6.8 | 87.8 |
| 88 | 1,4-Butandiol Diacrylate  | Acrylic acid 4- acryloyloxy-butyl ester | 16.8 | 9.1 | 4.2 | 194.4 |
| 89 | Butane  | Butane | 14.1 | 0 | 0 | 101.4 |
| 90 | 1,3-Butanediol  | Butane-1,3-diol | 16.6 | 10.0 | 21.5 | 89.9 |
| 730 | 1,4-Butanediol  | Butane-1,4-diol | 16.6 | 15.3 | 21.7 | 88.9 |
| 91 | 1-Butanethiol  | Butane-1-thiol | 16.3 | 5.3 | 4.5 | 107.8 |
| 92 | 1-Butanol  | Butan-1-ol | 16.0 | 5.7 | 15.8 | 91.5 |

TABLE A.1 (CONTINUED)

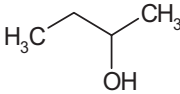
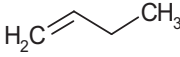
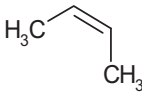
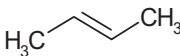
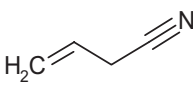
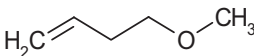
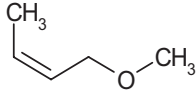
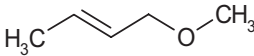
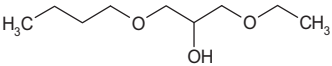
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|-----|---|-----------------------------------|------------|----------|---------------------|-----------------|
| 92 | 2-Butanol | Butan-2-ol | 15.8 | 5.7 | 14.5 | 92.0 |
| |  | | | | | |
| 94 | 1-Butene | But-1-ene | 13.2 | 1.3 | 3.9 | 94.3 |
| |  | | | | | |
| 95 | 2-Butene (cis) | (Z)-But-2-ene | 14.7 | 1.3 | 4.1 | 90.3 |
| |  | | | | | |
| 96 | 2-Butene (trans) | (E)-But-2-ene | 14.6 | 0 | 2.9 | 92.9 |
| |  | | | | | |
| 97 | 3-Butenenitrile | But-3-enenitrile | 16.2 | 14.3 | 5.6 | 80.5 |
| |  | | | | | |
| 98 | 1-Butenyl Methyl Ether | 4-Methoxy-but-1-ene | 15.1 | 5.3 | 5.2 | 111.9 |
| |  | | | | | |
| 99 | 2-Butenyl Methyl Ether (cis) | (Z)-1-Methoxy-but-2-ene | 15.2 | 3.4 | 5.0 | 118.8 |
| |  | | | | | |
| 100 | 2-Butenyl Methyl Ether (trans) | (E)-1-Methoxy-but-2-ene | 15.3 | 4.4 | 4.3 | 110.4 |
| |  | | | | | |
| 101 | Butoxy Ethoxy Propanol Commercial | 1-Butoxy-3-ethoxy- propan-2-ol | 15.5 | 6.5 | 10.2 | 185.9 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

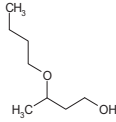
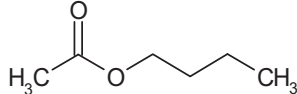
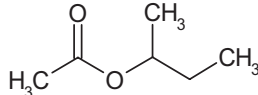
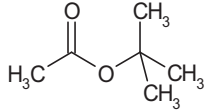
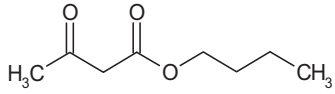
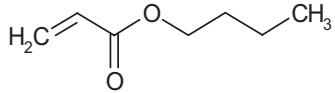
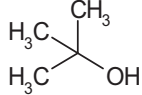
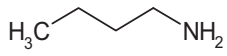
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|-----|---|--------------------------------|------------|----------|---------------------|-----------------|
| 728 | 3-Butoxybutanol | 3-Butoxy-butan-1-ol | 15.9 | 5.5 | 10.6 | 166.3 |
| |  | | | | | |
| 102 | n-Butyl Acetate | Acetic acid butyl ester | 15.8 | 3.7 | 6.3 | 132.5 |
| |  | | | | | |
| 103 | Sec-Butyl Acetate | Acetic acid sec-butyl ester | 15.0 | 3.7 | 7.6 | 133.6 |
| |  | | | | | |
| 963 | tert-Butyl Acetate | Acetic acid tert-butyl ester | 15.4 | 6.2 | 6.2 | 134.1 |
| |  | | | | | |
| 768 | n-Butyl Aceto Acetate | 3-Oxo-butyric acid butyl ester | 16.6 | 5.8 | 7.3 | 164.3 |
| |  | | | | | |
| 104 | n-Butyl Acrylate | Acrylic acid butyl ester | 15.6 | 6.2 | 4.9 | 143.8 |
| |  | | | | | |
| 611 | t-Butyl Alcohol | 2-Methyl-propan-2-ol | 15.2 | 5.1 | 14.7 | 95.8 |
| |  | | | | | |
| 105 | n-Butyl Amine | Butylamine | 16.2 | 4.5 | 8.0 | 99.0 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

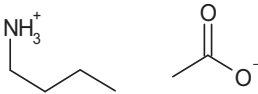
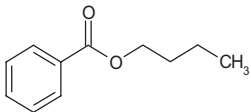
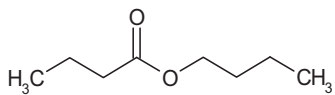
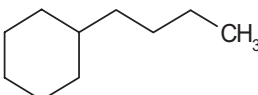
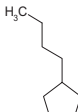
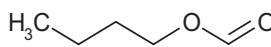
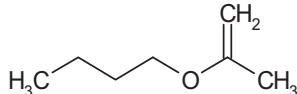
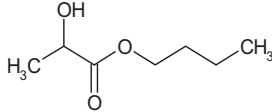
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|---|------------|----------|---------------------|-----------------|
| 1182 | N-Butyl Amine/Acetic Acid | Acetate butyl- ammonium; | 16.0 | 20.3 | 18.4 | |
| |  | | | | | |
| 718 | Butyl Benzoate* | Benzoic acid butyl ester | 18.3 | 5.6 | 5.5 | 178.0 |
| |  | | | | | |
| 774 | n-Butyl Butyrate | Butyric acid butyl ester | 15.6 | 2.9 | 5.6 | 166.7 |
| |  | | | | | |
| 722 | n-Butyl Cyclohexane | Butyl-cyclohexane | 16.2 | 0 | 0.6 | 176.7 |
| |  | | | | | |
| 723 | n-Butyl Cyclopentane | Butyl-cyclopentane | 16.4 | 0 | 1.0 | 162.0 |
| |  | | | | | |
| 927 | Butyl Formate | Formic acid butyl ester | 15.7 | 6.5 | 9.2 | 114.8 |
| |  | | | | | |
| 106 | Butyl Isopropenyl Ether | 1-Isopropenyloxy- butane | 14.8 | 5.3 | 5.0 | 145.7 |
| |  | | | | | |
| 107 | Butyl Lactate | 2-Hydroxy-propionic acid butyl ester | 15.8 | 6.5 | 10.2 | 149.0 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

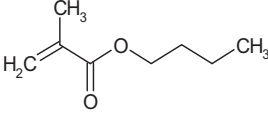
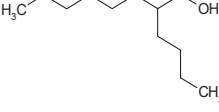
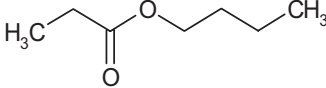
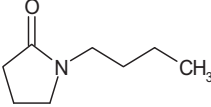
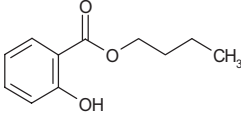
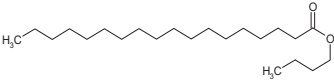
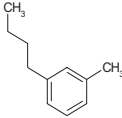
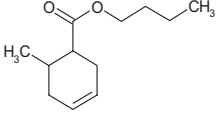
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|---|------------|----------|---------------------|-----------------|
| 108 | n-Butyl Methacrylate | 2-Methyl-acrylic acid butyl ester | 15.6 | 6.4 | 6.6 | 159.4 |
| |  | | | | | |
| 717 | 2-Butyl Octanol | 2-Butyl-octan-1-ol | 16.1 | 3.6 | 9.3 | 224.2 |
| |  | | | | | |
| 1006 | n-Butyl Propionate | Propionic acid butyl ester | 15.7 | 5.5 | 5.9 | 149.7 |
| |  | | | | | |
| 109 | N-Butyl Pyrrolidone | 1-Butyl-pyrrolidin-2-one | 17.5 | 9.9 | 5.8 | 148.0 |
| |  | | | | | |
| 764 | n-Butyl Salicylate | 2-Hydroxy-benzoic acid butyl ester | 17.9 | 4.8 | 11.7 | 181.7 |
| |  | | | | | |
| 223 | Butyl Stearate | Octadecanoic acid butyl ester | 14.5 | 3.7 | 3.5 | 382.0 |
| |  | | | | | |
| 724 | 3-n-Butyl Toluene | 1-Butyl-3-methyl- benzene | 17.4 | 0.1 | 1.0 | 173.7 |
| |  | | | | | |
| 747 | Butyl-6-Methyl-3-Cyclohexene Carboxylate | 6-Methyl-cyclohex-3- enecarboxylic acid butyl ester | 16.1 | 2.5 | 5.7 | 209.1 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

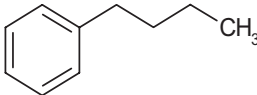
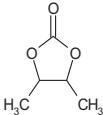
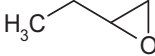
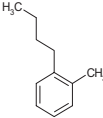
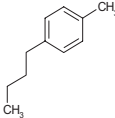

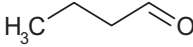
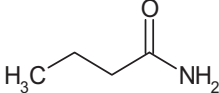
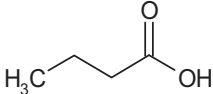
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|--------------------------------------|------------|----------|---------------------|-----------------|
| 725 | n-Butylbenzene  | Butyl-benzene | 17.4 | 0.1 | 1.1 | 157.0 |
| 110 | 2,3-Butylene Carbonate  | 4,5-Dimethyl- [1,3]dioxolan-2-one | 18.0 | 16.8 | 3.1 | 105.5 |
| 111 | Butyleneoxide  | 2-Ethyl-oxirane | 16.3 | 6.2 | 5.9 | 87.5 |
| 719 | o-n-Butyltoluene  | 1-Butyl-2-methyl- benzene | 17.6 | 0.1 | 1.0 | 171.3 |
| 720 | p-n-Butyltoluene  | 1-Butyl-4-methyl- benzene | 17.4 | 0.1 | 1.0 | 174.2 |
| 112 | 2-Butynedinitrile  | But-2-ynedinitrile | 15.2 | 16.2 | 8.0 | 78.4 |
| 1060 | Butyraldehyde*  | Butyraldehyde | 15.6 | 10.1 | 6.2 | 90.5 |
| 1072 | n-Butyramide  | Butyramide | 16.9 | 13.7 | 12.3 | 98.4 |
| 114 | Butyric Acid  | Butyric acid | 14.9 | 4.1 | 10.6 | 110.0 |

TABLE A.1 (CONTINUED)

| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|------------------------------------|--|------------|----------|---------------------|-----------------|
| 767 | Butyric Anhydride | Butanoic anhydride | 16.0 | 6.3 | 7.7 | 164.4 |
| | | | | | | |
| 115 | Gamma-Butyrolactone | Dihydro-furan-2-one | 19.0 | 16.6 | 7.4 | 76.8 |
| | | | | | | |
| 116 | Butyronitrile | Butyronitrile | 15.3 | 12.4 | 5.1 | 87.3 |
| | | | | | | |
| 117 | Butyrylchloride | Butyryl chloride | 16.8 | 9.4 | 4.8 | 103.6 |
| | | | | | | |
| 1200 | Caffeine | 1,3,7-Trimethyl-3,7-dihydro-purine-2,6-dione | 19.5 | 10.1 | 13.0 | 157.9 |
| | | | | | | |
| 118 | Caprolactone (Epsilon) | Oxepan-2-one | 19.7 | 15.0 | 7.4 | 110.8 |
| | | | | | | |
| 869 | Carbazole (Diphenylenimine) | 9H-Carbazole | 21.7 | 6.4 | 6.2 | 152.0 |
| | | | | | | |
| 119 | Carbon Dioxide* Ro = 3.3 | Methanedione | 15.7 | 6.3 | 5.7 | 38.0 |
| | | | | | | |

TABLE A.1 (CONTINUED)



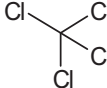
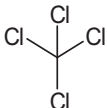
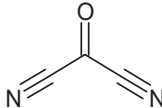


| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|----------------------|------------|----------|---------------------|-----------------|
| 120 | Carbon Disulfide P for 0 Dipole Moment | Methanedithione | 20.5 | 0 | 0.6 | 60.0 |
| |  | | | | | |
| 121 | Carbon Disulfide P for Group Contribution | Methanedithione | 19.9 | 5.8 | 0.6 | 60.0 |
| |  | | | | | |
| 122 | Carbon tetrachloride P for 0 Dipole Moment | Tetrachloro-methane | 17.8 | 0 | 0.6 | 97.1 |
| |  | | | | | |
| 862 | Carbon Tetrachloride P by Group Cont. | Tetrachloro-methane | 16.1 | 8.3 | 0 | 97.1 |
| |  | | | | | |
| 124 | Carbonyl Cyanide | 2-Oxo-malononitrile | 15.0 | 6.3 | 8.0 | 71.2 |
| |  | | | | | |
| 123 | Carbonyl Sulfide | Thioxo-methanone | 17.4 | 3.7 | 0 | 51.0 |
| |  | | | | | |
| 1224 | Castor Oil | | 15.9 | 4.6 | 12.0 | 436.0 |
| 976 | Cetyl Alcohol (1-Hexadecanol) | Hexadecan-1-ol | 15.1 | 3.7 | 8.1 | 298.7 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

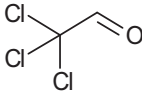
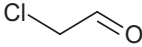
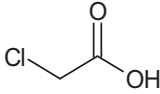
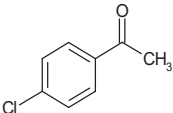
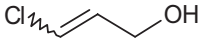
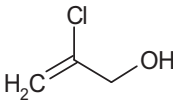
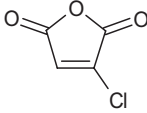
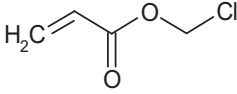
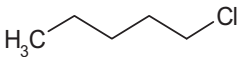
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|-----|---|------------------------------------|------------|----------|---------------------|-----------------|
| 125 | Chloral  | Trichloro-acetaldehyde | 17.2 | 7.4 | 7.6 | 97.5 |
| 126 | Chlorine | Chlorine | 17.3 | 10.0 | 0 | 46.0 |
| 128 | Chloro Acetaldehyde  | Chloro-acetaldehyde | 16.2 | 16.1 | 9.0 | 60.4 |
| 129 | Chloro Acetic Acid  | Chloro-acetic acid | 17.7 | 10.4 | 12.3 | 68.6 |
| 797 | p-Chloro Acetophenone  | 1-(4-Chloro-phenyl)- ethanone | 19.6 | 7.6 | 4.0 | 129.7 |
| 130 | 3-Chloro Allyl Alcohol  | 3-Chloro-prop-2-en-1-ol | 17.2 | 10.3 | 16.5 | 78.6 |
| 131 | 2-Chloro Allyl Alcohol  | 2-Chloro-prop-2-en-1-ol | 17.1 | 10.2 | 16.4 | 79.6 |
| 983 | Chloro Maleic Anhydride  | 3-Chloro-furan-2,5- dione | 20.4 | 17.3 | 11.5 | 89.5 |
| 132 | 1-Chloro Methyl Acrylate  | Acrylic acid chloromethyl ester | 15.9 | 7.3 | 8.5 | 101.4 |
| 955 | 1-Chloro Pentane  | 1-Chloro-pentane | 16.0 | 6.9 | 1.9 | 120.8 |

TABLE A.1 (CONTINUED)

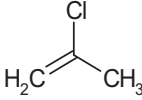
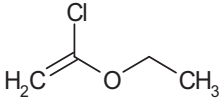
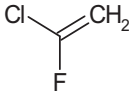
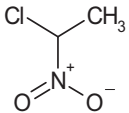
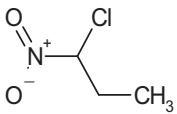
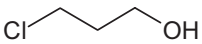

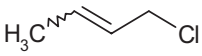
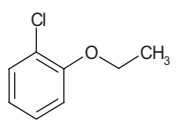
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|---------------------------|------------|----------|---------------------|-----------------|
| 133 | 2-Chloro Propene (Isopropenyl Chloride) | 2-Chloro-propene | 15.5 | 6.7 | 2.2 | 84.9 |
| |  | | | | | |
| 135 | 1-Chloro Vinyl Ethyl Ether | 1-Chloro-1-ethoxy-ethene | 16.8 | 6.5 | 5.7 | 104.5 |
| |  | | | | | |
| 127 | 1-Chloro-1-Fluoro Ethylene | 1-Chloro-1-fluoro-ethene | 16.0 | 6.9 | 4.0 | 67.6 |
| |  | | | | | |
| 136 | 1-Chloro-1-Nitroethane | 1-Chloro-1-nitro-ethane | 16.8 | 13.5 | 4.7 | 85.1 |
| |  | | | | | |
| 1083 | 1-Chloro-1-Nitropropane | 1-Chloro-1-nitro-propane | 16.8 | 13.0 | 4.5 | 102.2 |
| |  | | | | | |
| 137 | 3-Chloro-1-Propanol | 3-Chloro-propan-1-ol | 17.5 | 5.7 | 14.7 | 84.2 |
| |  | | | | | |
| 138 | 4-Chloro-1,2-Butadiene | 4-Chloro-buta-1,2-diene | 16.6 | 8.0 | 6.7 | 89.5 |
| |  | | | | | |
| 139 | 1-Chloro-2-Butene | 1-Chloro-but-2-ene | 16.2 | 7.7 | 2.0 | 97.4 |
| |  | | | | | |
| 817 | 1-Chloro-2-Ethoxy Benzene | 1-Chloro-2-ethoxy-benzene | 19.2 | 8.1 | 4.4 | 138.7 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

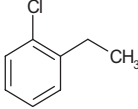
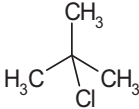
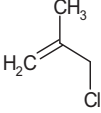
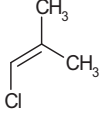
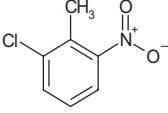
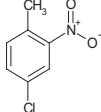
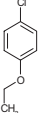
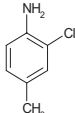
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|--|---------------------------------------|------------|----------|---------------------|-----------------|
| 1164 | 1-Chloro-2-Ethyl Benzene  | 1-Chloro-2-ethyl- benzene | 18.9 | 4.9 | 2.2 | 133.0 |
| 970 | 2-Chloro-2-Methyl Propane  | 2-Chloro-2-methyl- propane | 15.6 | 7.6 | 2.0 | 110.0 |
| 140 | 3-Chloro-2-Methyl Propene  | 3-Chloro-2-methyl- propene | 16.2 | 5.6 | 2.0 | 98.8 |
| 141 | 1-Chloro-2-Methyl Propene  | 1-Chloro-2-methyl- propene | 16.1 | 7.1 | 4.2 | 95.6 |
| 813 | 6-Chloro-2-Nitrotoluene  | 1-Chloro-2-methyl-3- nitro-benzene | 20.3 | 9.6 | 3.8 | 132.0 |
| 819 | 4-Chloro-2-Nitrotoluene  | 4-Chloro-1-methyl-2- nitro-benzene | 19.9 | 11.8 | 3.8 | 132.0 |
| 816 | 1-Chloro-4-Ethoxy Benzene  | 1-Chloro-4-ethoxy- benzene | 19.3 | 6.3 | 4.4 | 139.2 |
| 950 | 2-Chloro-4-Methylaniline  | 2-Chloro-4-methyl- phenylamine | 19.7 | 7.4 | 8.9 | 123.0 |

TABLE A.1 (CONTINUED)

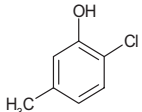
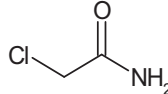
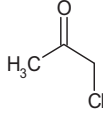
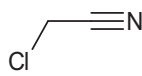
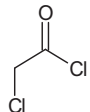
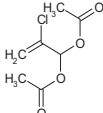
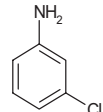
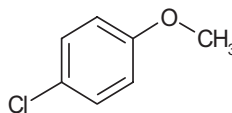
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|--|------------|----------|---------------------|-----------------|
| 977 | 2-Chloro-5-Methyl Phenol  | 2-Chloro-5-methyl- phenol | 19.0 | 7.7 | 13.1 | 117.4 |
| 1067 | 2-Chloroacetamide  | 2-Chloro-acetamide | 17.6 | 12.4 | 12.8 | 93.5 |
| 142 | Chloroacetone  | 1-Chloro-propan-2-one | 16.8 | 9.6 | 5.5 | 80.5 |
| 143 | Chloroacetonitrile  | Chloro-acetonitrile | 17.4 | 13.6 | 2.0 | 63.3 |
| 144 | Chloroacetylchloride  | Chloro-acetyl chloride | 17.5 | 9.2 | 5.5 | 79.5 |
| 145 | Chloroacetylene $\text{HC}\equiv\text{C}-\text{Cl}$ | Chloro-ethyne | 16.2 | 2.1 | 2.5 | 63.7 |
| 766 | 2-Chloroallylidene Diacetate  | Acetic acid 1-acetoxy-2- chloro-allyl ester | 16.7 | 7.3 | 8.8 | 160.2 |
| 1012 | m-Chloroaniline  | 3-Chloro-phenylamine | 20.6 | 9.9 | 9.8 | 105.0 |
| 146 | 4-Chloroanisole  | 1-Chloro-4-methoxy- benzene | 19.6 | 7.8 | 6.7 | 122.5 |

TABLE A.1 (CONTINUED)

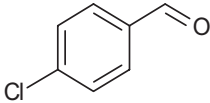
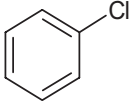
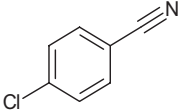
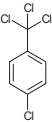
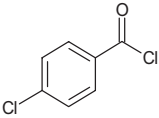
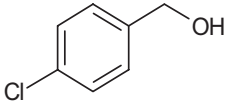
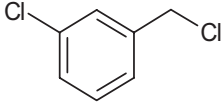
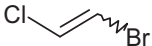
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|-----|---|------------------------------------|------------|----------|---------------------|-----------------|
| 147 | 4-Chlorobenzaldehyde | 4-Chloro-benzaldehyde | 19.9 | 7.2 | 5.6 | 113.4 |
| |  | | | | | |
| 148 | Chlorobenzene | Chloro-benzene | 19.0 | 4.3 | 2.0 | 102.1 |
| |  | | | | | |
| 811 | 4-Chlorobenzonitrile | 4-Chloro-benzonitrile | 19.5 | 8.0 | 4.1 | 125.1 |
| |  | | | | | |
| 853 | 4-Chlorobenzotrichloride | 1-Chloro-4-trichloromethyl-benzene | 20.3 | 5.5 | 3.5 | 153.8 |
| |  | | | | | |
| 812 | p-Chlorobenzoyl Chloride | 4-Chloro-benzoyl chloride | 19.9 | 6.7 | 5.1 | 127.1 |
| |  | | | | | |
| 149 | 4-Chlorobenzyl Alcohol | (4-Chloro-phenyl)-methanol | 19.6 | 7.5 | 13.0 | 117.7 |
| |  | | | | | |
| 150 | 3-Chlorobenzylchloride | 1-Chloro-3-chloromethyl-benzene | 19.9 | 9.3 | 2.6 | 117.7 |
| |  | | | | | |
| 151 | 1,2-Chlorobromoethylene | 1-Bromo-2-chloro-ethene | 17.2 | 6.6 | 2.3 | 78.7 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

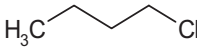
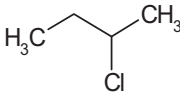
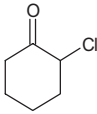


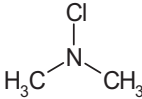
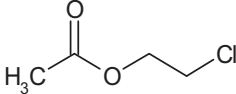
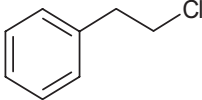
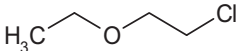
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|--|--------------------------------------|------------|----------|---------------------|-----------------|
| 152 | 1-Chlorobutane  | 1-Chloro-butane | 16.2 | 5.5 | 2.0 | 104.5 |
| 750 | 2-Chlorobutane  | 2-Chloro-butane | 15.8 | 7.6 | 2.0 | 106.8 |
| 780 | 2-Chlorocyclohexanone  | 2-Chloro-cyclohexanone | 18.5 | 13.0 | 5.1 | 113.9 |
| 153 | Chlorocyclopropane  | Chloro-cyclopropane | 17.6 | 7.2 | 2.2 | 84.9 |
| 154 | Chlorodifluoromethane (Freon 22)  | Chloro-difluoro-methane | 12.3 | 6.3 | 5.7 | 72.9 |
| 155 | N-Chlorodimethylamine  | [Chloro(methyl)amino] methane | 16.0 | 7.8 | 7.9 | 87.4 |
| 772 | 2-Chloroethyl Acetate  | Acetic acid 2-chloro- ethyl ester | 16.7 | 9.6 | 8.8 | 107.5 |
| 1165 | 2-Chloroethyl Benzene  | (2-Chloro-ethyl)- benzene | 19.3 | 6.3 | 2.2 | 131.5 |
| 756 | 2-Chloroethyl Ethyl Ether  | 1-Chloro-2-ethoxy- ethane | 16.3 | 7.9 | 4.6 | 109.5 |

TABLE A.1 (CONTINUED)

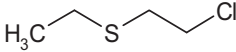
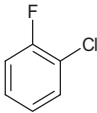
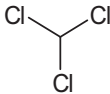
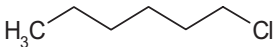
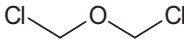
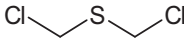
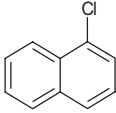
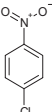
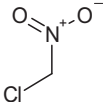
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|-----|--|-------------------------------------|------------|----------|---------------------|-----------------|
| 834 | 2-Chloroethyl Ethyl Sulfide  | 1-Chloro-2-ethylsulfanyl-ethane | 17.2 | 5.0 | 6.1 | 116.9 |
| 808 | o-Chlorofluorobenzene  | 1-Chloro-2-fluorobenzene | 19.4 | 8.7 | 2.0 | 104.9 |
| 156 | Chloroform  | Trichloro-methane | 17.8 | 3.1 | 5.7 | 80.7 |
| 959 | 1-Chlorohexane  | 1-Chloro-hexane | 16.1 | 6.2 | 1.7 | 138.1 |
| 157 | Bis(Chloromethyl) Ether  | Chloro-chloromethoxy-methane | 17.2 | 4.9 | 6.6 | 86.6 |
| 158 | Chloromethylsulfide  | Chloro-chloromethylsulfanyl-methane | 16.6 | 6.4 | 2.0 | 95.0 |
| 870 | 1-Chloronaphthalene  | 1-Chloro-naphthalene | 19.9 | 4.9 | 2.5 | 136.2 |
| 809 | p-Chloronitrobenzene  | 1-Chloro-4-nitrobenzene | 20.4 | 9.6 | 4.2 | 103.7 |
| 159 | Chloronitromethane  | Chloro-nitro-methane | 17.4 | 13.5 | 5.5 | 65.1 |

TABLE A.1 (CONTINUED)

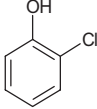
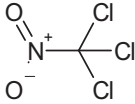
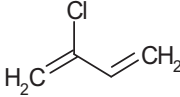
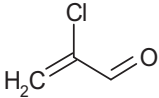
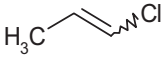
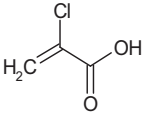
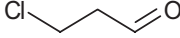
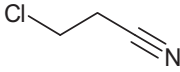
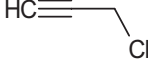
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|--------------------------|------------|----------|---------------------|-----------------|
| 160 | 2-Chlorophenol  | 2-Chloro-phenol | 20.3 | 5.5 | 13.9 | 102.3 |
| 1081 | Chloropicrin (Trichloronitromethane)  | Trichloro-nitro-methane | 17.6 | 6.8 | 7.0 | 101.7 |
| 161 | Chlorprene  | 2-Chloro-buta-1,3-diene | 16.1 | 5.4 | 2.1 | 93.2 |
| 162 | 2-Chloropropenal  | 2-Chloro-propenal | 17.1 | 12.9 | 8.1 | 75.5 |
| 163 | 1-Chloropropene  | 1-Chloro-propene | 15.3 | 6.9 | 2.2 | 82.3 |
| 164 | 2-Chloropropenoic Acid  | 2-Chloro-acrylic acid | 19.1 | 9.4 | 12.4 | 86.6 |
| 165 | 3-Chloropropionaldehyde  | 3-Chloro-propionaldehyde | 17.0 | 13.3 | 8.2 | 73.0 |
| 166 | 3-Chloropropionitrile  | 3-Chloro-propionitrile | 17.3 | 15.9 | 6.1 | 77.4 |
| 167 | 3-Chloropropyne  | 3-Chloro-propyne | 16.7 | 7.4 | 2.3 | 72.4 |

TABLE A.1 (CONTINUED)

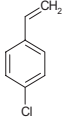
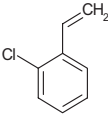
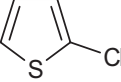
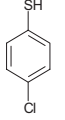
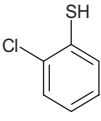
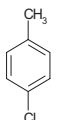
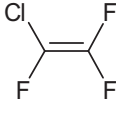
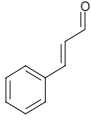
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|-------------------------------------|------------|----------|---------------------|-----------------|
| 711 | p-Chlorostyrene  | 1-Chloro-4-vinyl- benzene | 18.7 | 4.3 | 3.9 | 128.3 |
| 712 | o-Chlorostyrene  | 1-Chloro-2-vinyl- benzene | 18.7 | 4.7 | 3.9 | 126.8 |
| 989 | 2-Chlorothiophene  | 2-Chloro-thiophene | 19.2 | 6.2 | 8.0 | 92.2 |
| 168 | 4-Chlorothiophenol  | 4-Chloro-benzenethiol | 20.8 | 8.6 | 10.6 | 100.0 |
| 787 | o-Chlorothiophenol  | 2-Chloro-benzenethiol | 20.2 | 7.0 | 10.0 | 113.4 |
| 814 | p-Chlorotoluene  | 1-Chloro-4-methyl- benzene | 19.1 | 6.2 | 2.6 | 118.3 |
| 134 | Chlorotrifluoroethylene (CTFE)  | 1-Chloro-1,2,2-trifluoro- ethene | 15.3 | 6.3 | 0 | 75.6 |
| 1111 | trans-Cinnamaldehyde  | (E)-3-Phenyl-propenal | 19.4 | 12.4 | 6.2 | 125.9 |

TABLE A.1 (CONTINUED)

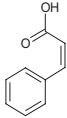
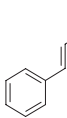
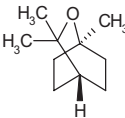
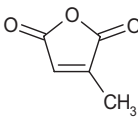
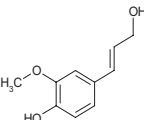
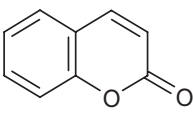
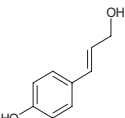
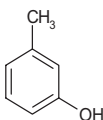
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|---|------------|----------|---------------------|-----------------|
| 1110 | cis-Cinnamic Acid  | (Z)-3-Phenyl-acrylic acid | 19.1 | 3.9 | 10.6 | 115.4 |
| 1107 | Cinnamyl Alcohol  | (E)-3-Phenyl-prop-2-en-1-ol | 19.1 | 6.0 | 13.0 | 129.1 |
| 1135 | Cineol (Eucalyptol)  | 1,3,3-Trimethyl-2-oxa-bicyclo[2.2.2]octane | 16.7 | 4.6 | 3.4 | 167.5 |
| 982 | Citraconic Anhydride  | 3-Methyl-furan-2,5-dione | 19.2 | 17.0 | 11.2 | 89.9 |
| 1102 | Coniferyl Alcohol  | 4-((E)-3-Hydroxy-propenyl)-2-methoxy-phenol | 19.0 | 7.0 | 16.3 | 171.6 |
| 974 | Coumarin  | Chromen-2-one | 20.0 | 12.5 | 6.7 | 156.3 |
| 1103 | p-Coumaryl Alcohol  | 4-((E)-3-Hydroxy-propenyl)-phenol | 19.1 | 7.0 | 17.3 | 136.5 |
| 169 | m-Cresol  | 3-Methyl-phenol | 18.0 | 5.1 | 12.9 | 104.7 |

TABLE A.1 (CONTINUED)

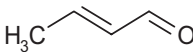
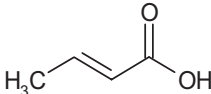
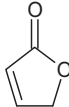
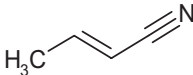
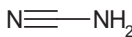


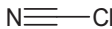

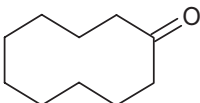
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|-----|---|----------------------|------------|----------|---------------------|-----------------|
| 170 | Crotonaldehyde | (E)-But-2-enal | 16.2 | 14.9 | 7.4 | 82.5 |
| |  | | | | | |
| 171 | Crotonic Acid | (E)-But-2-enoic acid | 16.8 | 8.7 | 12.0 | 84.6 |
| |  | | | | | |
| 172 | Crotonlactone | 5H-Furan-2-one | 19.0 | 19.8 | 9.6 | 76.4 |
| |  | | | | | |
| 173 | Trans-Crotonitrile | (E)-But-2-enitrile | 16.4 | 18.8 | 5.5 | 81.4 |
| |  | | | | | |
| 174 | Cyanamid (Carbamonitrile) | Cyanamide | 15.5 | 27.6 | 16.8 | 32.8 |
| |  | | | | | |
| 175 | Cyanogen | Oxalonitrile | 15.1 | 11.8 | 0 | 54.6 |
| |  | | | | | |
| 176 | Cyanogen Bromide | Cyanic bromide | 18.3 | 15.2 | 0 | 52.6 |
| |  | | | | | |
| 177 | Cyanogen Chloride | Cyanic chloride | 15.6 | 14.5 | 0 | 51.8 |
| |  | | | | | |
| 178 | Cyclobutanone | Cyclobutanone | 18.3 | 11.4 | 5.2 | 73.4 |
| |  | | | | | |
| 179 | Cyclodecanone | Cyclodecanone | 16.8 | 8.0 | 4.1 | 161.0 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

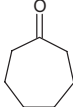

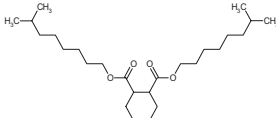
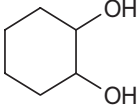
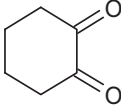
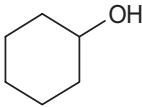
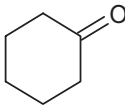

| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|--|------------|----------|---------------------|-----------------|
| 180 | Cycloheptanone  | Cycloheptanone | 17.2 | 10.6 | 4.8 | 118.2 |
| 181 | Cyclohexane  | Cyclohexane | 16.8 | 0 | 0.2 | 108.7 |
| 1214 | Cyclohexane-1,2-Dicarboxylic Acid Di-(Isononyl) Ether  | Cyclohexane-1,2- dicarboxylic acid bis- (7-methyl-octyl) ester | 16.4 | 2.2 | 5.0 | 422.4 |
| 1093 | 1,2-Cyclohexanediol  | Cyclohexane-1,2-diol | 17.4 | 9.8 | 18.3 | 112.8 |
| 1094 | 1,2-Cyclohexanedione  | Cyclohexane-1,2-dione | 18.6 | 10.3 | 8.0 | 103.8 |
| 182 | Cyclohexanol  | Cyclohexanol | 17.4 | 4.1 | 13.5 | 106.0 |
| 183 | Cyclohexanone  | Cyclohexanone | 17.8 | 6.3 | 5.1 | 104.0 |
| 871 | Cyclohexene  | Cyclohexene | 17.2 | 1.0 | 5.0 | 101.9 |

TABLE A.1 (CONTINUED)

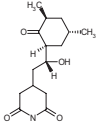
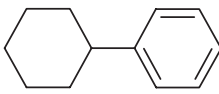
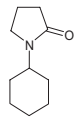
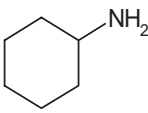
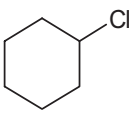
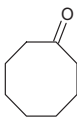


| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|---|------------|----------|---------------------|-----------------|
| 1199 | Cycloheximide  | 4-[(R)-2-((1S,3S,5S)-3,5-Dimethyl-2-oxo-cyclohexyl)-2-hydroxy-ethyl]-piperidine-2,6-dione | 18.3 | 11.0 | 13.8 | 171.0 |
| 872 | Cyclohexyl Benzene  | Cyclohexyl-benzene | 18.7 | 0 | 1.0 | 169.9 |
| 969 | N-Cyclohexyl-2-Pyrrolidone  | 1-Cyclohexyl-pyrrolidin-2-one | 18.2 | 6.8 | 6.5 | 163.0 |
| 184 | Cyclohexylamine  | Cyclohexylamine | 17.2 | 3.1 | 6.5 | 113.8 |
| 185 | Cyclohexylchloride  | Chloro-cyclohexane | 17.3 | 5.5 | 2.0 | 118.6 |
| 186 | Cyclooctanone  | Cyclooctanone | 17.0 | 9.6 | 4.5 | 131.7 |
| 920 | Cyclopentadiene  | Cyclopenta-1,3-diene | 17.2 | 1.9 | 6.1 | 82.1 |
| 187 | Cyclopentane  | Cyclopentane | 16.4 | 0 | 1.8 | 94.9 |

TABLE A.1 (CONTINUED)

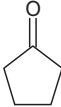

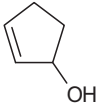


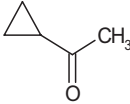

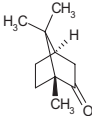
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|--|------------|----------|---------------------|-----------------|
| 188 | Cyclopentanone | Cyclopentanone | 17.9 | 11.9 | 5.2 | 89.1 |
| |  | | | | | |
| 189 | Cyclopentene | Cyclopentene | 16.7 | 3.8 | 1.7 | 89.0 |
| |  | | | | | |
| 735 | 2-Cyclopentenyl Alcohol | Cyclopent-2-enol | 18.1 | 7.6 | 15.6 | 86.2 |
| |  | | | | | |
| 190 | Cyclopropene | Cyclopropene | 17.2 | 2.4 | 2.0 | 50.0 |
| |  | | | | | |
| 191 | Cyclopropane | Cyclopropane | 17.6 | 0 | 0 | 58.3 |
| |  | | | | | |
| 192 | Cyclopropylmethylketone | 1-Cyclopropyl-ethanone | 17.0 | 11.1 | 4.6 | 93.6 |
| |  | | | | | |
| 193 | Cyclopropyl nitrile | Cyclopropane-carbonitrile | 18.6 | 16.2 | 5.7 | 75.4 |
| |  | | | | | |
| 1223 | d-Camphor | (1R,4R)-1,7,7-Trimethyl-bicyclo[2.2.1]heptan-2-one | 17.8 | 9.4 | 4.7 | 153.7 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

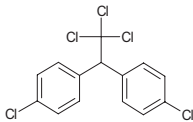
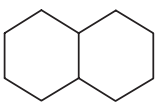
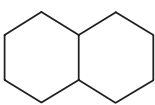
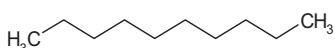
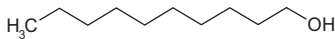
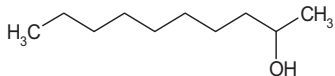
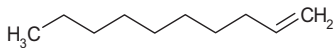
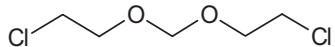
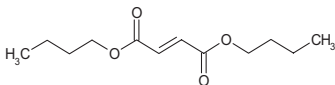
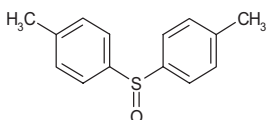
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|-----|---|---|------------|----------|---------------------|-----------------|
| 873 | DDT | 1-Chloro-4-[2,2,2-trichloro-1-(4-chlorophenyl)ethyl]benzene | 20.0 | 5.5 | 3.1 | 268.8 |
| |  | | | | | |
| 194 | Cis-Decahydronaphthalene | Decahydro-naphthalene | 18.8 | 0 | 0 | 156.9 |
| |  | | | | | |
| 195 | Trans-Decahydronaphthalene | Decahydro-naphthalene | 18.0 | 0 | 0 | 156.9 |
| |  | | | | | |
| 196 | Decane | Decane | 15.7 | 0 | 0 | 195.9 |
| |  | | | | | |
| 197 | 1-Decanol* | Decan-1-ol | 16.0 | 4.7 | 10.0 | 191.8 |
| |  | | | | | |
| 734 | 2-Decanol | Decan-2-ol | 15.8 | 3.9 | 10.0 | 192.8 |
| |  | | | | | |
| 726 | 1-Decene | Dec-1-ene | 15.8 | 1.0 | 2.2 | 190.6 |
| |  | | | | | |
| 759 | Di-(2-Chloroethoxy) Methane | 1-Chloro-2-(2-chloroethoxymethoxy)-ethane | 17.1 | 10.2 | 7.1 | 141.1 |
| |  | | | | | |
| 773 | Dibutyl Fumarate | (E)-But-2-enedioic acid dibutyl ester | 16.7 | 3.0 | 6.7 | 232.7 |
| |  | | | | | |
| 199 | Di-p-Tolyl Sulfoxide | 1-Methyl-4-[(4-methylphenyl)sulfinyl]benzene | 20.3 | 11.4 | 3.1 | 209.0 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

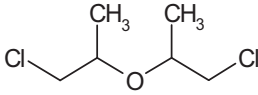
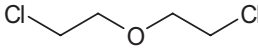
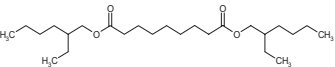
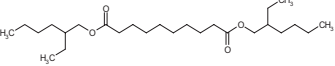
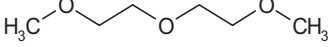
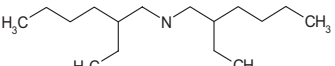
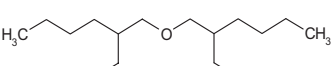
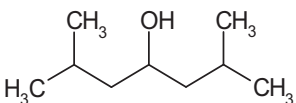
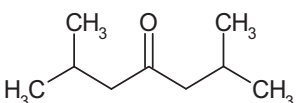
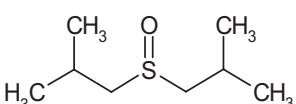
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|--|--|------------|----------|---------------------|-----------------|
| 204 | Di-(2-Chloro-Isopropyl) Ether  | 1-Chloro-2-(2-chloro-1-methyl-ethoxy)-propane | 19.0 | 8.2 | 5.1 | 146.0 |
| 235 | Di-(2-Chloroethyl) Ether  | 1-Chloro-2-(2-chloro-ethoxy)-ethane | 18.8 | 9.0 | 5.7 | 117.2 |
| 1139 | Di-(2-Ethyl Hexyl)azelate  | Nonanedioic acid bis-(2-ethyl-hexyl) ester | 16.7 | 1.4 | 4.8 | 449.9 |
| 1138 | Di-(2-Ethyl Hexyl)sebacate  | Decanedioic acid bis-(2-ethyl-hexyl) ester | 16.8 | 1.0 | 4.7 | 468.7 |
| 202 | Di-(2-Methoxyethyl) Ether  | 1-Methoxy-2-(2-methoxy-ethoxy)-ethane | 15.7 | 6.1 | 6.5 | 142.0 |
| 205 | Di-2-Ethyl Hexyl Amine  | Bis-(2-ethyl-hexyl)-amine | 15.6 | 0.8 | 3.2 | 301.5 |
| 736 | Di-2-Ethyl Hexyl Ether  | 3-(2-Ethyl-hexyloxymethyl)-heptane | 15.9 | 2.6 | 2.5 | 300.5 |
| 208 | Di-Isobutyl Carbinol  | 2,6-Dimethyl-heptan-4-ol | 14.9 | 3.1 | 10.8 | 177.8 |
| 203 | Di-Isobutyl Ketone  | 2,6-Dimethyl-heptan-4-one | 16.0 | 3.7 | 4.1 | 177.1 |
| 845 | Di-Isobutyl Sulfoxide  | 2-Methyl-1-(2-methyl-propane-1-sulfinyl)-propane | 16.3 | 10.5 | 6.1 | 195.0 |

TABLE A.1 (CONTINUED)

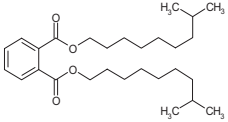
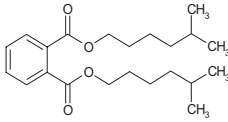
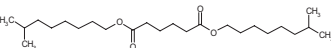
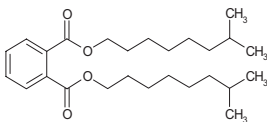
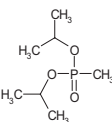
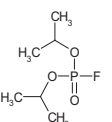
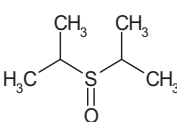
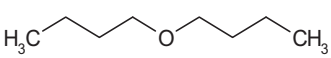
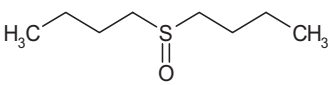
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|-----|---|---|------------|----------|---------------------|-----------------|
| 279 | Di-Isodecyl Phthalate  | Phthalic acid bis-(8-methyl-nonyl) ester | 16.6 | 6.2 | 2.6 | 464.2 |
| 280 | Di-Isiheptyl Phthalate  | Phthalic acid bis-(5-methyl-hexyl) ester | 16.8 | 7.2 | 3.4 | 364.9 |
| 281 | Di-Isononyl Adipate  | Hexanedioic acid bis-(7-methyl-octyl) ester | 16.2 | 1.8 | 4.9 | 433.7 |
| 282 | Di-Isononyl Phthalate  | Phthalic acid bis-(7-methyl-octyl) ester | 16.6 | 6.6 | 2.9 | 432.4 |
| 840 | Di-Isopropyl Methyl Phosphonate  | Methyl-phosphonic acid diisopropyl ester | 16.4 | 10.0 | 5.7 | 184.4 |
| 842 | Di-Isopropyl Phosphonofluoridate  | Phosphorofluoric acid diisopropyl ester | 15.7 | 10.2 | 5.9 | 174.5 |
| 198 | Di-Isopropyl Sulfoxide  | 2-(Propane-2-sulfinyl)-propane | 17.0 | 11.5 | 7.4 | 159.9 |
| 219 | Di-n-Butyl Ether  | 1-Butoxy-butane | 15.2 | 3.4 | 4.2 | 170.3 |
| 200 | Di-n-Butyl Sulfoxide  | 1-(Butane-1-sulfinyl)-butane | 16.4 | 10.5 | 6.1 | 195.0 |

TABLE A.1 (CONTINUED)

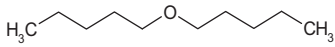
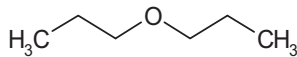
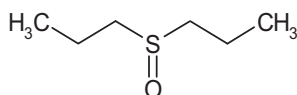
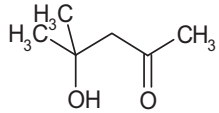
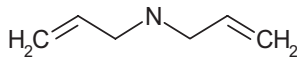
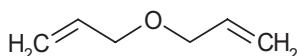
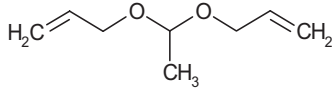
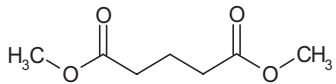
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|--|-------------------------------------|------------|----------|---------------------|-----------------|
| 957 | Di-n-Pentyl Ether  | 1-Pentyloxy-pentane | 15.6 | 3.1 | 3.0 | 203.2 |
| 956 | Di-n-Propyl Ether  | 1-Propoxy-propane | 15.1 | 4.2 | 3.7 | 137.7 |
| 201 | Di-n-Propyl Sulfoxide  | 1-(Propane-1-sulfinyl)- propane | 17.0 | 13.0 | 7.4 | 159.9 |
| 209 | Diacetone Alcohol  | 4-Hydroxy-4-methyl- pentan-2-one | 15.8 | 8.2 | 10.8 | 124.2 |
| 210 | Diallyl Amine  | Diallyl-amine | 15.6 | 4.5 | 6.7 | 124.1 |
| 211 | Diallyl Ether  | 3-Allyloxy-propene | 15.3 | 4.4 | 5.3 | 118.8 |
| 749 | 1,1-Diallyloxyethane  | 3-(1-Allyloxy-ethoxy)- propene | 15.4 | 5.1 | 4.8 | 163.3 |
| 212 | Diazomethane $\text{H}_2\text{C}=\text{N}^+=\text{N}^-$ | Diazomethane | 14.7 | 6.1 | 11.3 | 78.1 |
| 1009 | Dibasic Esters (dupont) Mix of Dimethyl Esters of Succinic, Glutaric, and Adipic Acids  | Pentanedioic acid dimethyl ester | 16.2 | 4.7 | 8.4 | 159.0 |

TABLE A.1 (CONTINUED)

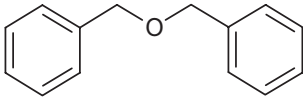
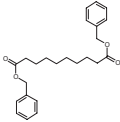
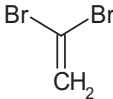
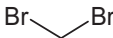
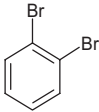
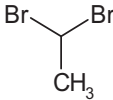
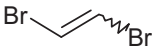
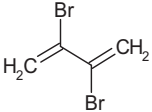
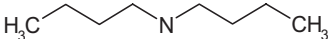
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|------------------------------------|------------|----------|---------------------|-----------------|
| 213 | Dibenzyl Ether* | [(Benzyloxy)methyl]- benzene | 19.6 | 3.4 | 5.2 | 197.4 |
| |  | | | | | |
| 1148 | Dibenzyl Sebacate | Decanedioic acid dibenzyl ester | 17.8 | 2.2 | 5.5 | 362.1 |
| |  | | | | | |
| 214 | 1,1-Dibromo Ethylene | 1,1-Dibromo-ethene | 15.1 | 4.8 | 7.0 | 85.3 |
| |  | | | | | |
| 215 | Dibromo Methane | Dibromo-methane | 17.8 | 6.4 | 7.0 | 69.8 |
| |  | | | | | |
| 804 | o-Dibromobenzene | 1,2-Dibromo-benzene | 20.7 | 6.5 | 5.3 | 120.0 |
| |  | | | | | |
| 216 | 1,1-Dibromoethane | 1,1-Dibromo-ethane | 18.5 | 8.4 | 8.8 | 91.4 |
| |  | | | | | |
| 217 | 1,2-Dibromoethylene | 1,2-Dibromo-ethene | 18.0 | 4.9 | 3.0 | 82.7 |
| |  | | | | | |
| 218 | 2,3-Dibromoprene | 2,3-Dibromo-buta-1,3- diene | 17.7 | 11.8 | 6.4 | 103.4 |
| |  | | | | | |
| 1015 | Dibutyl Amine | Dibutyl-amine | 15.0 | 3.0 | 4.3 | 170.0 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

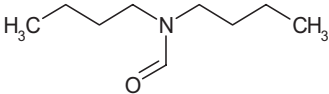
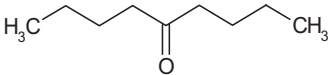
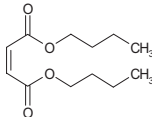
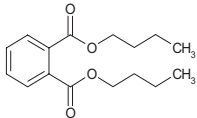
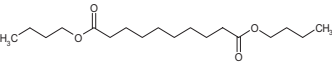
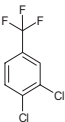
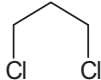
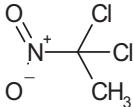
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|--|------------|----------|---------------------|-----------------|
| 220 | N,N-Dibutyl Formamide | N,N-Dibutyl-formamide | 15.5 | 8.9 | 6.2 | 182.0 |
| |  | | | | | |
| 1068 | Dibutyl Ketone | Nonan-5-one | 16.0 | 7.7 | 4.4 | 173.4 |
| |  | | | | | |
| 1146 | Dibutyl Maleate | (Z)-But-2-enedioic acid dibutyl ester | 16.5 | 6.1 | 7.2 | 230.4 |
| |  | | | | | |
| 221 | Dibutyl Phthalate | Phthalic acid dibutyl ester | 17.8 | 8.6 | 4.1 | 266.0 |
| |  | | | | | |
| 222 | Dibutyl Sebacate* | Decanedioic acid dibutyl ester | 16.7 | 4.5 | 4.1 | 339.0 |
| |  | | | | | |
| 700 | 3,4-Dichloro α,α,α -Trifluorotoluene | 1,2-Dichloro-4- trifluoromethyl- benzene | 20.0 | 4.7 | 2.4 | 145.5 |
| |  | | | | | |
| 874 | 1,3-Dichloropropane | 1,3-Dichloro-propane | 18.6 | 8.2 | 3.0 | 95.1 |
| |  | | | | | |
| 1082 | 1,1-Dichloro-1-Nitroethane | 1,1-Dichloro-1-nitro- ethane | 16.8 | 12.1 | 4.3 | 125.2 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

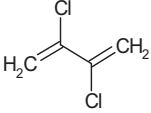
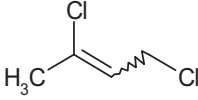
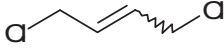
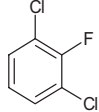
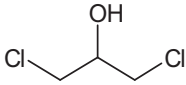
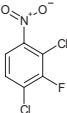
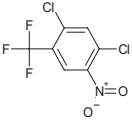
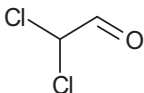
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|-----|---|--|------------|----------|---------------------|-----------------|
| 229 | 2,3-Dichloro-1,3-Butadiene  | 2,3-Dichloro-buta-1,3- diene | 17.1 | 2.3 | 2.8 | 104.0 |
| 206 | 1,3-Dichloro-2-butene  | 1,3-Dichloro-but-2-ene | 16.9 | 7.8 | 2.7 | 107.7 |
| 207 | 1,4-Dichloro-2-Butene  | 1,4-Dichloro-but-2-ene | 17.8 | 7.6 | 2.0 | 97.8 |
| 825 | 1,3-Dichloro-2-Fluorobenzene  | 1,3-Dichloro-2-fluoro- benzene | 19.4 | 9.1 | 2.7 | 117.1 |
| 739 | 1,3-Dichloro-2-Propanol  | 1,3-Dichloro-propan-2- ol | 17.5 | 9.9 | 14.6 | 95.5 |
| 824 | 2,4-Dichloro-3-Fluoronitrobenzene  | 1,3-Dichloro-2-fluoro-4- nitro-benzene | 19.9 | 7.2 | 4.2 | 140.0 |
| 828 | 2,4-Dichloro-5-Nitrobenzotrifluoride  | 1,5-Dichloro-2-nitro-4- trifluoromethyl- benzene | 19.9 | 7.6 | 3.7 | 162.0 |
| 230 | Dichloroacetaldehyde  | Dichloro-acetaldehyde | 16.7 | 9.1 | 7.5 | 94.0 |

TABLE A.1 (CONTINUED)

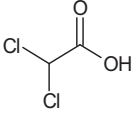
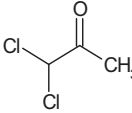
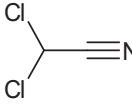
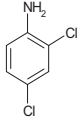
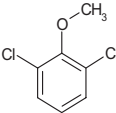
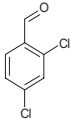
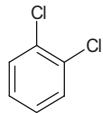
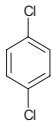
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|--------------------------------|------------|----------|---------------------|-----------------|
| 945 | Dichloroacetic Acid | Dichloro-acetic acid | 18.2 | 8.1 | 12.2 | 82.5 |
| |  | | | | | |
| 231 | 1,1-Dichloroacetone | 1,1-Dichloro-propan-2-one | 17.1 | 7.6 | 5.4 | 97.3 |
| |  | | | | | |
| 232 | Dichloroacetonitrile | Dichloro-acetonitrile | 17.4 | 9.4 | 6.4 | 80.3 |
| |  | | | | | |
| 1000 | 2,4-Dichloroaniline | 2,4-Dichloro-phenylamine | 20.9 | 6.2 | 10.0 | 103.4 |
| |  | | | | | |
| 233 | 2,6-Dichloroanisole | 1,3-Dichloro-2-methoxy-benzene | 19.8 | 8.4 | 6.5 | 137.1 |
| |  | | | | | |
| 846 | 2,4-Dichlorobenzaldehyde | 2,4-Dichloro-benzaldehyde | 19.7 | 8.8 | 5.4 | 135.7 |
| |  | | | | | |
| 234 | o-Dichlorobenzene | 1,2-Dichloro-benzene | 19.2 | 6.3 | 3.3 | 112.8 |
| |  | | | | | |
| 715 | p-Dichlorobenzene | 1,4-Dichloro-benzene | 19.7 | 5.6 | 2.7 | 118.6 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

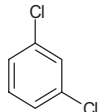
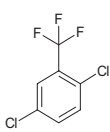
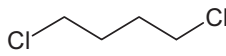
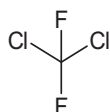
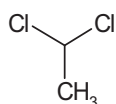
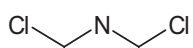
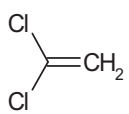
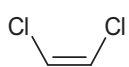
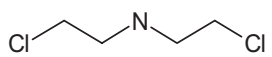
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|--|------------|----------|---------------------|-----------------|
| 716 | m-Dichlorobenzene  | 1,3-Dichloro-benzene | 19.7 | 5.1 | 2.7 | 114.8 |
| 826 | 2,5-Dichlorobenzotrifluoride  | 1,4-Dichloro-2- trifluoromethyl- benzene | 20.0 | 4.7 | 2.4 | 145.5 |
| 1019 | 1,4-Dichlorobutane  | 1,4-Dichloro-butane | 18.3 | 7.7 | 2.8 | 109.5 |
| 236 | Dichlorodifluoromethane (Freon 12)  | Dichloro-difluoro- methane | 12.3 | 2.0 | 0 | 92.3 |
| 237 | 1,1-Dichloroethane  | 1,1-Dichloro-ethane | 16.5 | 7.8 | 3.0 | 84.2 |
| 225 | N,N-Dichloromethyl Amine  | Bis-chloromethyl-amine | 16.8 | 7.6 | 8.0 | 90.8 |
| 239 | 1,1-Dichloroethylene  | 1,1-Dichloro-ethene | 16.4 | 5.2 | 2.4 | 79.9 |
| 224 | 1,2-Dichloroethylene (cis)  | (Z)-1,2-Dichloro-ethene | 17.0 | 8.0 | 3.2 | 75.5 |
| 238 | N,N-Dichloroethyl Amine  | Bis-(2-chloro-ethyl)- amine | 16.8 | 7.6 | 7.7 | 98.3 |

TABLE A.1 (CONTINUED)

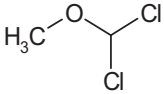
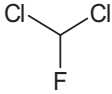
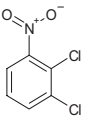
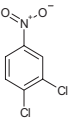
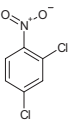
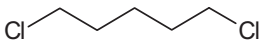
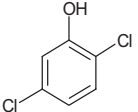
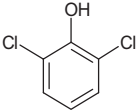
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|-----|---|----------------------------------|------------|----------|---------------------|-----------------|
| 241 | Dichloromethyl Methyl Ether | Dichloro-methoxy- methane | 17.1 | 12.9 | 6.5 | 90.5 |
| |  | | | | | |
| 242 | Dichloromonofluoromethane (Freon 21) | Dichloro-fluoro-methane | 15.8 | 3.1 | 5.7 | 75.4 |
| |  | | | | | |
| 243 | 2,3-Dichloronitrobenzene | 1,2-Dichloro-3-nitro- benzene | 19.7 | 12.6 | 4.4 | 132.5 |
| |  | | | | | |
| 801 | 3,4-Dichloronitrobenzene | 1,2-Dichloro-4-nitro- benzene | 20.1 | 7.2 | 4.1 | 130.6 |
| |  | | | | | |
| 822 | 2,4-Dichloronitrobenzene | 2,4-Dichloro-1-nitro- benzene | 20.4 | 8.7 | 4.2 | 133.4 |
| |  | | | | | |
| 833 | 1,5-Dichloropentane | 1,5-Dichloro-pentane | 19.0 | 7.8 | 1.5 | 127.5 |
| |  | | | | | |
| 244 | 2,5-Dichlorophenol | 2,5-Dichloro-phenol | 20.0 | 6.3 | 12.1 | 119.0 |
| |  | | | | | |
| 852 | 2,6-Dichlorophenol | 2,6-Dichloro-phenol | 20.1 | 7.5 | 10.9 | 119.0 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

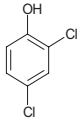
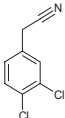
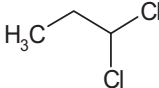
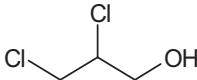
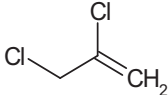
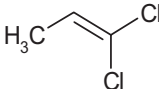
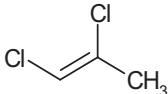
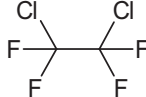
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|---|------------|----------|---------------------|-----------------|
| 1159 | 2,4-Dichlorophenol | 2,4-Dichloro-phenol | 20.0 | 7.2 | 13.1 | 119.0 |
| |  | | | | | |
| 848 | 3,4-Dichlorophenyl Acetonitrile | (3,4-Dichloro-phenyl)- acetonitrile | 20.5 | 10.8 | 4.4 | 148.8 |
| |  | | | | | |
| 245 | 1,1-Dichloropropane | 1,1-Dichloro-propane | 16.1 | 7.8 | 3.5 | 98.3 |
| |  | | | | | |
| 738 | 2,3-Dichloropropanol | 2,3-Dichloro-propan- 1-ol | 17.5 | 9.2 | 14.6 | 95.2 |
| |  | | | | | |
| 226 | 2,3-Dichloropropene | 2,3-Dichloro-propene | 16.2 | 7.8 | 3.0 | 91.6 |
| |  | | | | | |
| 246 | 1,1-Dichloropropene | 1,1-Dichloro-propene | 16.9 | 6.7 | 2.9 | 93.5 |
| |  | | | | | |
| 227 | 1,2-Dichloropropene (cis) | (Z)-1,2-Dichloro- propene | 17.0 | 8.5 | 2.9 | 93.9 |
| |  | | | | | |
| 247 | 1,2-Dichlorotetrafluoroethane (Freon 114) | 1,2-Dichloro-1,1,2,2- tetrafluoro-ethane | 12.6 | 1.8 | 0 | 117.6 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

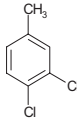
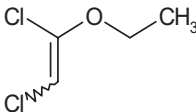
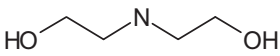
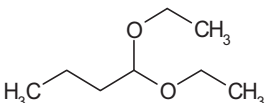
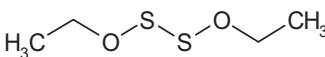
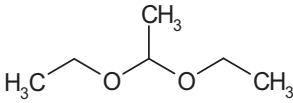
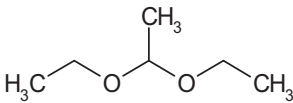
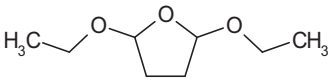
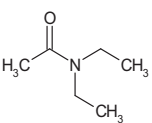
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|--------------------------------------|------------|----------|---------------------|-----------------|
| 248 | 3,4-Dichlorotoluene  | 1,2-Dichloro-4-methyl- benzene | 19.8 | 9.8 | 2.5 | 128.7 |
| 228 | 1,2-Dichlorovinyl Ethyl Ether  | 1,2-Dichloro-1-ethoxy- ethene | 16.9 | 10.5 | 6.0 | 117.8 |
| 249 | Diethanolamine  | 2-(2-Hydroxy- ethylamino)-ethanol | 17.2 | 10.8 | 21.2 | 95.9 |
| 777 | 1,1-Diethoxy Butane  | 1,1-Diethoxy-butane | 15.4 | 4.9 | 4.6 | 177.6 |
| 792 | Diethoxy Disulfide  | [(Ethoxydithio)oxy]etha ne | 15.1 | 8.3 | 7.4 | 141.5 |
| 250 | 1,1-Diethoxy Ethane  | 1,1-Diethoxy-ethane | 15.0 | 3.4 | 4.0 | 143.9 |
| 791 | 1,1-Diethoxy Ethane (Acetal)  | 1,1-Diethoxy-ethane | 15.2 | 5.4 | 5.3 | 142.2 |
| 1045 | 2,5-Diethoxy Tetrahydrofuran  | 2,5-Diethoxy- tetrahydro-furan | 16.6 | 6.4 | 7.3 | 165.7 |
| 251 | N,N-Diethyl Acetamide  | N,N-Diethyl-acetamide | 16.4 | 11.3 | 7.5 | 124.5 |

TABLE A.1 (CONTINUED)

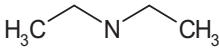

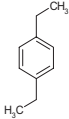
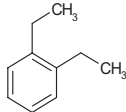
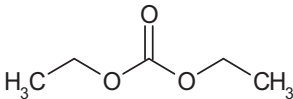
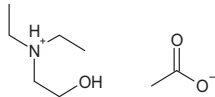
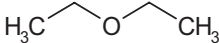
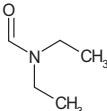
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|---|------------|----------|---------------------|-----------------|
| 252 | Diethyl Amine | Diethyl-amine | 14.9 | 2.3 | 6.1 | 103.2 |
| |  | | | | | |
| 1183 | Diethyl Amine/Acetic Acid | Acetate diethyl- ammonium; | 16.0 | 20.3 | 18.4 | |
| |  | | | | | |
| 253 | p-Diethyl Benzene | 1,4-Diethyl-benzene | 18.0 | 0 | 0.6 | 156.9 |
| |  | | | | | |
| 721 | 1,2-Diethyl Benzene | 1,2-Diethyl-benzene | 17.7 | 0.1 | 1.0 | 153.5 |
| |  | | | | | |
| 254 | Diethyl Carbonate* | Carbonic acid diethyl ester | 15.1 | 6.3 | 3.5 | 121.0 |
| |  | | | | | |
| 1184 | Diethyl Ethanolamine/Acetic Acid | Acetate diethyl-(2- hydroxy-ethyl)- ammonium; | 16.0 | 20.3 | 18.4 | |
| |  | | | | | |
| 255 | Diethyl Ether | Ethoxy-ethane | 14.5 | 2.9 | 5.1 | 104.8 |
| |  | | | | | |
| 256 | N,N-Diethyl Formamide | N,N-Diethyl-formamide | 16.4 | 11.4 | 9.2 | 111.4 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

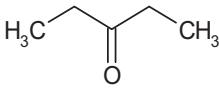
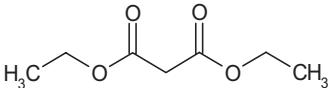
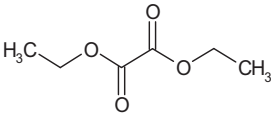
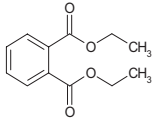
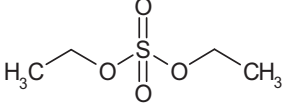
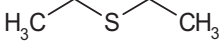
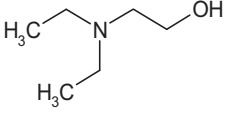
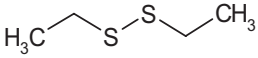
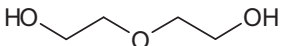
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|----------------------------------|------------|----------|---------------------|-----------------|
| 257 | Diethyl Ketone | Pentan-3-one | 15.8 | 7.6 | 4.7 | 106.4 |
| |  | | | | | |
| 979 | Diethyl Malonate | Malonic acid diethyl ester | 16.1 | 7.7 | 8.3 | 152.5 |
| |  | | | | | |
| 1143 | Diethyl Oxalate | Oxalic acid diethyl ester | 16.2 | 8.0 | 8.8 | 136.6 |
| |  | | | | | |
| 258 | Diethyl Phthalate | Phthalic acid diethyl ester | 17.6 | 9.6 | 4.5 | 198.0 |
| |  | | | | | |
| 259 | Diethyl Sulfate | Sulfuric acid diethyl ester | 15.7 | 14.7 | 7.1 | 131.5 |
| |  | | | | | |
| 260 | Diethyl Sulfide | Ethylsulfanyl-ethane | 16.8 | 3.1 | 2.0 | 107.4 |
| |  | | | | | |
| 261 | 2-(Diethylamino) Ethanol | 2-Diethylamino-ethanol | 14.9 | 5.8 | 12.0 | 133.2 |
| |  | | | | | |
| 262 | Diethyldisulfide | Ethyldisulfanyl-ethane | 16.7 | 6.7 | 5.7 | 123.1 |
| |  | | | | | |
| 263 | Diethylene Glycol Commercial | 2-(2-Hydroxy-ethoxy)- ethanol | 16.6 | 12.0 | 20.7 | 94.9 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

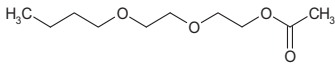
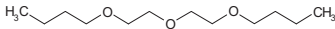
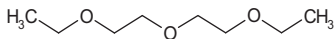
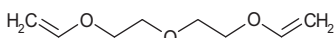
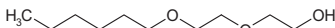
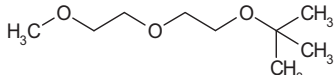
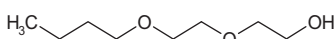
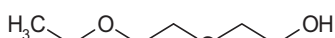
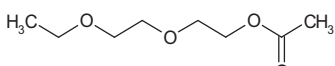
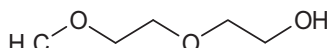
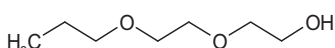
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|-----|---|--|------------|----------|---------------------|-----------------|
| 264 | Diethylene Glycol Butyl Ether Acetate Commercial | Acetic acid 2-(2-butoxy-ethoxy)-ethyl ester | 16.0 | 4.1 | 8.2 | 208.2 |
| |  | | | | | |
| 757 | Diethylene Glycol Dibutyl Ether | 1-[2-(2-Butoxy-ethoxy)-ethoxy]-butane | 15.8 | 4.7 | 4.4 | 248.1 |
| |  | | | | | |
| 762 | Diethylene Glycol Diethyl Ether | 1-Ethoxy-2-(2-ethoxy-ethoxy)-ethane | 15.8 | 5.9 | 5.6 | 179.8 |
| |  | | | | | |
| 755 | Diethylene Glycol Divinyl Ether | [2-(2-Vinyloxy-ethoxy)-ethoxy]-ethene | 16.0 | 7.3 | 7.9 | 164.1 |
| |  | | | | | |
| 265 | Diethylene Glycol Hexyl Ether | 2-(2-Hexyloxy-ethoxy)-ethanol | 16.0 | 6.0 | 10.0 | 204.3 |
| |  | | | | | |
| 266 | Diethylene Glycol Methyl t-Butyl Ether commercial | 2-[2-(2-Methoxy-ethoxy)-ethoxy]-2-methyl-propane | 16.0 | 7.2 | 7.2 | 193.9 |
| |  | | | | | |
| 267 | Diethylene Glycol Monobutyl Ether Commercial | 2-(2-Butoxy-ethoxy)-ethanol | 16.0 | 7.0 | 10.6 | 170.6 |
| |  | | | | | |
| 268 | Diethylene Glycol Monoethyl Ether Commercial | 2-(2-Ethoxy-ethoxy)-ethanol | 16.1 | 9.2 | 12.2 | 130.9 |
| |  | | | | | |
| 269 | Diethylene Glycol Monoethyl Ether Acetate Commercial | Acetic acid 2-(2-ethoxy-ethoxy)-ethyl ester | 16.2 | 5.1 | 9.2 | 175.5 |
| |  | | | | | |
| 270 | Diethylene Glycol Monomethyl Ether Commercial | 2-(2-Methoxy-ethoxy)-ethanol | 16.2 | 7.8 | 12.6 | 118.0 |
| |  | | | | | |
| 271 | Diethylene Glycol Monopropyl Ether | 2-(2-Propoxy-ethoxy)-ethanol | 16.0 | 7.2 | 11.3 | 153.9 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

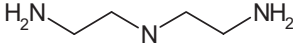
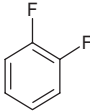
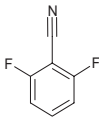
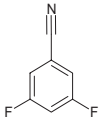


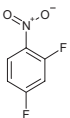
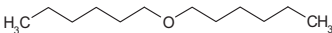
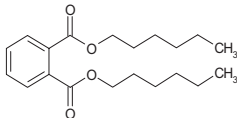
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|---|------------|----------|---------------------|-----------------|
| 272 | Diethylenetriamine Commercial | N*1*-(2-Amino-ethyl)- ethane-1,2-diamine | 16.7 | 13.3 | 14.3 | 108.0 |
| |  | | | | | |
| 810 | o-Difluorobenzene | 1,2-Difluoro-benzene | 18.0 | 9.0 | 1.0 | 98.5 |
| |  | | | | | |
| 829 | 2,6-Difluorobenzonitrile | 2,6-Difluoro- benzonitrile | 18.8 | 11.2 | 3.2 | 111.6 |
| |  | | | | | |
| 830 | 3,5-Difluorobenzonitrile | 3,5-Difluoro- benzonitrile | 18.8 | 11.2 | 3.2 | 111.6 |
| |  | | | | | |
| 273 | 1,1-Difluoroethane | 1,1-Difluoro-ethane | 14.9 | 10.2 | 3.0 | 69.5 |
| |  | | | | | |
| 274 | 1,1-Difluoroethylene | 1,1-Difluoro-ethene | 15.0 | 6.8 | 3.6 | 58.2 |
| |  | | | | | |
| 823 | 2,4-Difluoronitrobenzene | 2,4-Difluoro-1-nitro- benzene | 19.4 | 11.0 | 3.7 | 109.6 |
| |  | | | | | |
| 1069 | Dihexyl Ether | 1-Hexyloxy-hexane | 16.0 | 3.0 | 2.8 | 235.8 |
| |  | | | | | |
| 275 | Dihexyl Phthalate | Phthalic acid dihexyl ester | 17.0 | 7.6 | 3.6 | 332.3 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

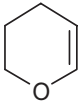
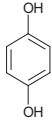
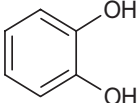
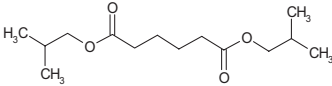
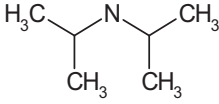
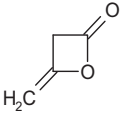
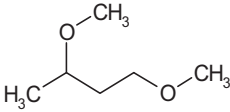
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|-----------------------------------|------------|----------|---------------------|-----------------|
| 276 | Dihydrogen Disulfide HS—SH | | 17.3 | 6.3 | 10.7 | 49.6 |
| 277 | Dihydropyran  | 3,4-Dihydro-2H-pyran | 17.5 | 5.5 | 5.7 | 91.2 |
| 917 | 1,4-Dihydroxybenzene (1,4-Benzenediol)  | Benzene-1,4-diol | 21.0 | 10.2 | 27.2 | 82.7 |
| 904 | 1,2-Dihydroxybenzene (Catechol)  | Benzene-1,2-diol | 20.0 | 11.3 | 21.8 | 81.9 |
| 1140 | Diisobutyl Adipate  | Hexanedioic acid diisobutyl ester | 16.7 | 2.5 | 6.2 | 269.6 |
| 1084 | Diisopropylamine  | Diisopropyl-amine | 14.8 | 1.7 | 3.5 | 141.1 |
| 283 | Diketene  | 4-Methylene-oxetan-2-one | 16.2 | 15.1 | 8.1 | 75.9 |
| 763 | 1,3-Dimethoxy Butane  | 1,3-Dimethoxy-butane | 15.6 | 5.5 | 5.2 | 140.0 |

TABLE A.1 (CONTINUED)

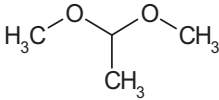
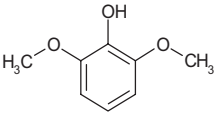
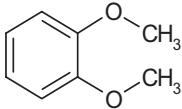
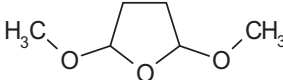
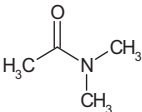

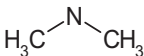
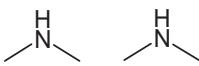
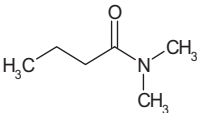
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|--|------------|----------|---------------------|-----------------|
| 284 | 1,1-Dimethoxy Ethane | 1,1-Dimethoxy-ethane | 15.1 | 4.9 | 4.9 | 106.7 |
| |  | | | | | |
| 1108 | 2,6-Dimethoxy Phenol | 2,6-Dimethoxy-phenol | 19.3 | 7.6 | 13.7 | 136.4 |
| |  | | | | | |
| 889 | 1,2-Dimethoxybenzene | 1,2-Dimethoxy-benzene | 19.2 | 4.4 | 9.4 | 127.7 |
| |  | | | | | |
| 988 | 2,5-Dimethoxytetrahydrofuran | 2,5-Dimethoxy-tetrahydro-furan | 16.8 | 7.2 | 8.2 | 129.6 |
| |  | | | | | |
| 285 | N,N-Dimethyl Acetamide | N,N-Dimethyl-acetamide | 16.8 | 11.5 | 10.2 | 92.5 |
| |  | | | | | |
| 286 | Dimethyl Acetylene | But-2-yne | 15.1 | 3.4 | 7.6 | 78.9 |
| |  | | | | | |
| 287 | Dimethyl Amine | Dimethyl-amine | 15.3 | 4.8 | 11.2 | 66.2 |
| |  | | | | | |
| 288 | Dimethyl Amine-Dimer | Dimethyl-amine; compound with dimethyl-amine | 15.3 | 4.8 | 7.9 | 132.4 |
| |  | | | | | |
| 289 | N,N-Dimethyl Butyramide | N,N-Dimethyl-butyr- amide | 16.4 | 10.6 | 7.4 | 127.8 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

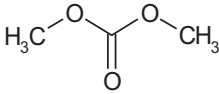
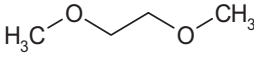
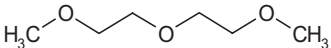
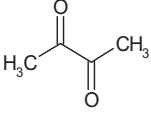
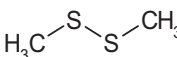
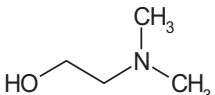
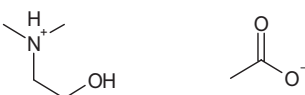
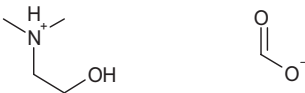
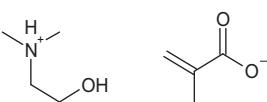
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|--|------------|----------|---------------------|-----------------|
| 290 | Dimethyl Carbonate | Carbonic acid dimethyl ester | 15.5 | 3.9 | 9.7 | 84.2 |
| |  | | | | | |
| 291 | Dimethyl Cellosolve | 1,2-Dimethoxy-ethane | 15.4 | 6.0 | 6.0 | 104.5 |
| |  | | | | | |
| 292 | Dimethyl Diethylene Glycol | 1-Methoxy-2-(2-methoxy-ethoxy)-ethane | 15.8 | 6.1 | 9.2 | 142.0 |
| |  | | | | | |
| 293 | Dimethyl Diketone | Butane-2,3-dione | 15.7 | 5.3 | 11.7 | 88.2 |
| |  | | | | | |
| 294 | Dimethyl Disulfide | Methyldisulfanyl-methane | 17.3 | 7.8 | 6.5 | 88.6 |
| |  | | | | | |
| 295 | Dimethyl Ethanolamine | 2-Dimethylamino-ethanol | 16.1 | 9.2 | 15.3 | 101.1 |
| |  | | | | | |
| 1189 | Dimethyl Ethanolamine/Acetic Acid | Acetate (2-hydroxy-ethyl)-dimethyl-ammonium; | 16.8 | 19.8 | 19.8 | |
| |  | | | | | |
| 1188 | Dimethyl Ethanolamine/Formic Acid | Formate (2-hydroxy-ethyl)-dimethyl-ammonium; | 17.2 | 21.5 | 22.5 | |
| |  | | | | | |
| 1185 | Dimethyl Ethanolamine/Methacrylic Acid | 2-Methyl-acrylate (2-hydroxy-ethyl)-dimethyl-ammonium; | 17.2 | 18.8 | 17.6 | |
| |  | | | | | |

TABLE A.1 (CONTINUED)

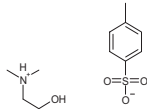
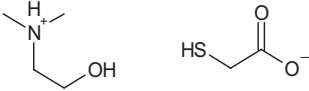
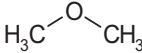
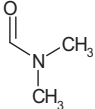
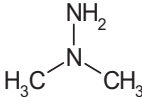
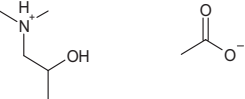
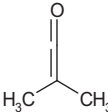
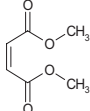
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|--|------------|----------|---------------------|-----------------|
| 1186 | Dimethyl Ethanolamine/p-Toluene Sulfonic Acid  | Toluene-4-sulfonate (2-hydroxy-ethyl)-dimethyl-ammonium; | 17.2 | 21.5 | 22.5 | |
| 1187 | Dimethyl Ethanolamine/Thioglycolic Acid  | Mercapto-acetate (2-hydroxy-ethyl)-dimethyl-ammonium; | 17.2 | 21.5 | 22.5 | |
| 296 | Dimethyl Ether  | Methoxymethane | 15.2 | 6.1 | 5.7 | 63.2 |
| 297 | Dimethyl Formamide  | N,N-Dimethyl-formamide | 17.4 | 13.7 | 11.3 | 77.0 |
| 298 | 1,1-Dimethyl Hydrazine  | N,N-Dimethyl-hydrazine | 15.3 | 5.9 | 11.0 | 76.0 |
| 1190 | Dimethyl Isopropanol Amine/Acetic Acid  | Acetate (2-hydroxy-propyl)-dimethyl-ammonium; | 16.6 | 19.4 | 18.0 | |
| 299 | Dimethyl Ketene  | 2-Methyl-propen-1-one | 15.2 | 7.4 | 4.8 | 87.6 |
| 1145 | Dimethyl Maleate  | (Z)-But-2-enedioic acid dimethyl ester | 16.3 | 8.3 | 9.8 | 125.8 |

TABLE A.1 (CONTINUED)

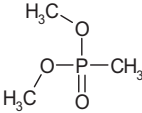
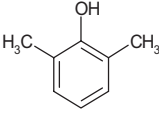
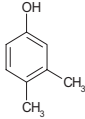
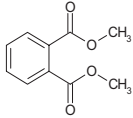
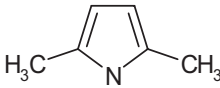
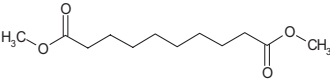
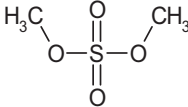
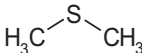
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|---------------------------------------|------------|----------|---------------------|-----------------|
| 839 | Dimethyl Methyl Phosphonate | Methyl-phosphonic acid dimethyl ester | 16.7 | 13.1 | 7.5 | 106.9 |
| |  | | | | | |
| 849 | 2,6-Dimethyl Phenol | 2,6-Dimethyl-phenol | 19.1 | 4.9 | 12.9 | 116.3 |
| |  | | | | | |
| 850 | 3,4-Dimethyl Phenol | 3,4-Dimethyl-phenol | 19.2 | 6.0 | 13.4 | 121.0 |
| |  | | | | | |
| 300 | Dimethyl Phthalate | Phthalic acid dimethyl ester | 18.6 | 10.8 | 4.9 | 163.0 |
| |  | | | | | |
| 782 | 2,5-Dimethyl Pyrrole | 2,5-Dimethyl-1H-pyrrole | 18.3 | 7.6 | 6.8 | 101.8 |
| |  | | | | | |
| 1144 | Dimethyl Sebacate | Decanedioic acid dimethyl ester | 16.6 | 2.9 | 6.7 | 233.3 |
| |  | | | | | |
| 1080 | Dimethyl Sulfate | Sulfuric acid dimethyl ester | 17.7 | 17.0 | 9.7 | 94.7 |
| |  | | | | | |
| 301 | Dimethyl Sulfide | Methylsulfanyl-methane | 16.1 | 6.4 | 7.4 | 73.2 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

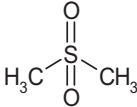
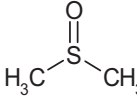
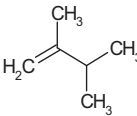
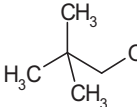
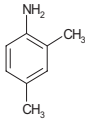
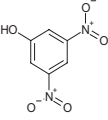
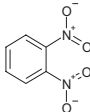
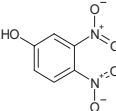
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|--------------------------|------------|----------|---------------------|-----------------|
| 302 | Dimethyl Sulfone | Methylsulfonyl-methane | 19.0 | 19.4 | 12.3 | 75.0 |
| |  | | | | | |
| 303 | Dimethyl Sulfoxide | Methylsulfinyl-methane | 18.4 | 16.4 | 10.2 | 71.3 |
| |  | | | | | |
| 304 | 2,3-Dimethyl-1-Butene | 2,3-Dimethyl-but-1-ene | 14.9 | 1.2 | 2.8 | 125.2 |
| |  | | | | | |
| 1027 | 2,2-Dimethyl-1-Propanol (Neopentyl alc.) | 2,2-Dimethyl-propan-1-ol | 15.6 | 6.5 | 13.5 | 107.5 |
| |  | | | | | |
| 952 | 2,4-Dimethylaniline | 2,4-Dimethyl-phenylamine | 19.2 | 5.2 | 8.7 | 123.7 |
| |  | | | | | |
| 942 | 3,5-Dinitrophenol | 3,5-Dinitro-phenol | 19.5 | 12.9 | 14.4 | 108.2 |
| |  | | | | | |
| 940 | 1,2-Dinitrobenzene | 1,2-Dinitro-benzene | 20.6 | 22.7 | 5.4 | 107.4 |
| |  | | | | | |
| 941 | 3,4-Dinitrophenol | 3,4-Dinitro-phenol | 19.5 | 12.8 | 14.3 | 110.1 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

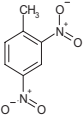
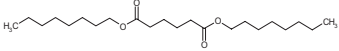
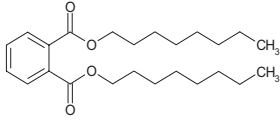
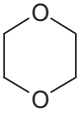
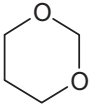
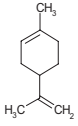


| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|--|------------|----------|---------------------|-----------------|
| 938 | 2,4-Dinitrotoluene  | 1-Methyl-2,4-dinitro- benzene | 20.0 | 13.1 | 4.9 | 137.9 |
| 1142 | Diocyl Adipate Commercial  | Hexanedioic acid dioctyl ester | 16.7 | 2.0 | 5.1 | 400.0 |
| 305 | Diocyl Phthalate Commercial  | Phthalic acid dioctyl ester | 16.6 | 7.0 | 3.1 | 377.0 |
| 306 | 1,4-Dioxane  | [1,4]Dioxane | 19.0 | 1.8 | 7.4 | 85.7 |
| 307 | 1,3-Dioxolane  | [1,3]Dioxane | 18.1 | 6.6 | 9.3 | 69.9 |
| 1197 | Dipentene  | 4-Isopropenyl-1-methyl- cyclohexene | 17.2 | 1.8 | 4.3 | 162.9 |
| 1166 | Diphenyl Acetylene P from 0 Dipole Moment  | (Phenylethynyl)benzene | 20.1 | 0 | 3.2 | 184.3 |
| 1167 | Diphenyl Acetylene P from Group Cont.  | (Phenylethynyl)benzene | 20.1 | 2.0 | 3.2 | 184.3 |

TABLE A.1 (CONTINUED)

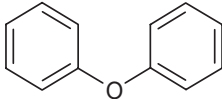
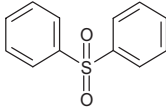
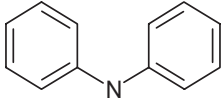
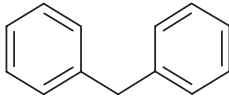
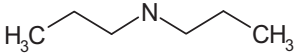
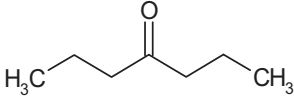

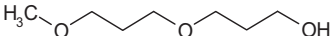
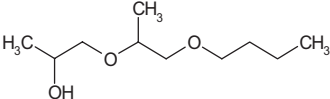
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|--|------------|----------|---------------------|-----------------|
| 778 | Diphenyl Ether* | Diphenyl ether | 19.5 | 3.4 | 5.8 | 160.4 |
| |  | | | | | |
| 779 | Diphenyl Sulfone | (Phenylsulfonyl)benzene | 21.1 | 14.4 | 3.4 | 174.3 |
| |  | | | | | |
| 875 | Diphenylamine | Diphenyl-amine | 20.0 | 3.3 | 5.9 | 145.9 |
| |  | | | | | |
| 876 | Diphenylmethane | Benzylbenzene | 19.5 | 1.0 | 1.0 | 168.2 |
| |  | | | | | |
| 308 | Dipropyl Amine | Dipropyl-amine | 15.3 | 1.4 | 4.1 | 136.9 |
| |  | | | | | |
| 737 | Dipropyl Ketone* | Heptan-4-one | 15.8 | 5.7 | 4.9 | 140.8 |
| |  | | | | | |
| 309 | Dipropylene Glycol Commercial | 3-(3-Hydroxy-propoxy)- propan-1-ol | 16.5 | 10.6 | 17.7 | 130.9 |
| |  | | | | | |
| 310 | Dipropylene Glycol Methyl Ether Commercial | 3-(3-Methoxy-propoxy)- propan-1-ol | 15.5 | 5.7 | 11.2 | 157.4 |
| |  | | | | | |
| 1007 | Dipropylene Glycol Mono n-Butyl Ether | 1-(2-Butoxy-1-methyl- ethoxy)-propan-2-ol | 15.7 | 6.5 | 10.0 | 211.2 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

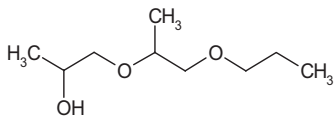
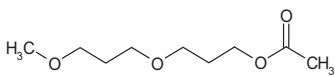
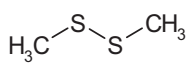
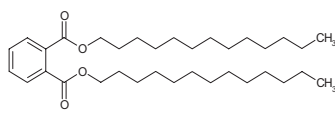
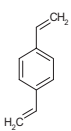
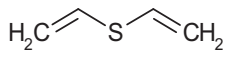
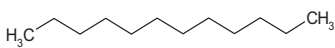
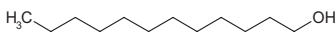
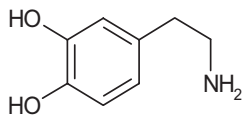
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|--|------------|----------|---------------------|-----------------|
| 1008 | Dipropylene Glycol Mono n-Propyl Ether | 1-(1-Methyl-2-propoxy-ethoxy)-propan-2-ol | 15.6 | 6.1 | 11.0 | 185.6 |
| |  | | | | | |
| 311 | Dipropylene Glycol Monomethyl Ether Acetate | Acetic acid 3-(3-methoxy-propoxy)-propyl ester | 16.3 | 4.9 | 8.0 | 195.7 |
| |  | | | | | |
| 312 | 2,3-Dithiabutane | Methyldisulfanyl-methane | 17.3 | 7.8 | 6.5 | 88.6 |
| |  | | | | | |
| 313 | Ditridecyl Phthalate | Phthalic acid ditridecyl ester | 16.6 | 5.4 | 1.9 | 558.3 |
| |  | | | | | |
| 314 | p-Divinyl Benzene | 1,4-Divinyl-benzene | 18.6 | 1.0 | 7.0 | 142.8 |
| |  | | | | | |
| 315 | Divinyl Sulfide | Vinylsulfanyl-ethene | 16.5 | 4.6 | 5.6 | 93.6 |
| |  | | | | | |
| 316 | Dodecane | Dodecane | 16.0 | 0 | 0 | 228.6 |
| |  | | | | | |
| 1075 | Dodecanol | Dodecan-1-ol | 16.0 | 4.0 | 9.3 | 224.5 |
| |  | | | | | |
| 1180 | Dopamine | 4-(2-Amino-ethyl)-benzene-1,2-diol | 18.2 | 10.3 | 19.5 | 183.0 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

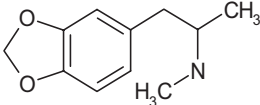
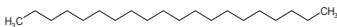
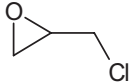
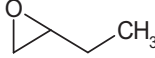
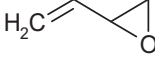
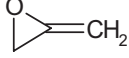
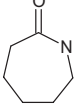
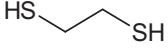
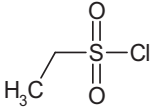
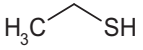
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|--|---|------------|----------|---------------------|-----------------|
| 1177 | Ecstasy  | (2-Benzo[1,3]dioxol-5-yl-1-methyl-ethyl)-methyl-amine | 18.0 | 5.1 | 6.1 | 202.9 |
| 317 | Eicosane  | Icosane | 16.5 | 0 | 0 | 359.8 |
| 318 | Epichlorohydrin  | 2-Chloromethyl-oxirane | 18.9 | 7.6 | 6.6 | 78.4 |
| 987 | 1,2-Epoxy Butane  | 2-Ethyl-oxirane | 15.6 | 8.0 | 4.6 | 87.9 |
| 320 | 3,4-Epoxy-1-Butene  | 2-Vinyl-oxirane | 16.6 | 7.7 | 7.4 | 80.7 |
| 319 | 1,2-Epoxy-2-Propene  | 2-Methylene-oxirane | 16.5 | 8.6 | 6.7 | 70.0 |
| 321 | Epsilon-Caprolactam  | Azepan-2-one | 19.4 | 13.8 | 3.9 | 110.7 |
| 322 | 1,2-Ethane Dithiol  | Ethane-1,2-dithiol | 17.9 | 7.2 | 8.7 | 83.9 |
| 323 | Ethanesulfonylchloride  | Ethanesulfonyl chloride | 17.7 | 14.9 | 6.8 | 94.7 |
| 324 | Ethanethiol (Ethyl Mercaptan)  | Ethanethiol | 15.7 | 6.5 | 7.1 | 74.3 |

TABLE A.1 (CONTINUED)

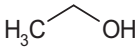
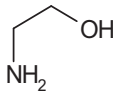

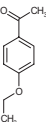
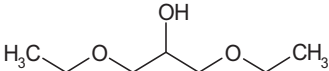
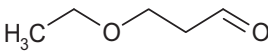
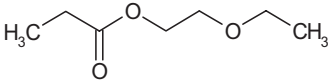
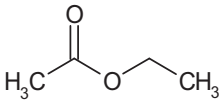
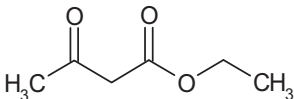
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|-------------------------------------|------------|----------|---------------------|-----------------|
| 325 | Ethanol | Ethanol | 15.8 | 8.8 | 19.4 | 58.5 |
| |  | | | | | |
| 326 | Ethanolamine | 2-Amino-ethanol | 17.0 | 15.5 | 21.2 | 59.8 |
| |  | | | | | |
| 1191 | Ethanolamine/Acetic Acid | Acetate 2-hydroxy-ethyl-ammonium; | 17.2 | 20.3 | 18.4 | |
| |  | | | | | |
| 794 | 4-Ethoxy Acetophenone | 1-(4-Ethoxy-phenyl)-ethanone | 18.8 | 10.3 | 6.4 | 162.6 |
| |  | | | | | |
| 776 | 1-Ethoxy Ethoxy-2-Propanol | 1,3-Diethoxy-propan-2-ol | 15.9 | 5.7 | 11.7 | 156.0 |
| |  | | | | | |
| 761 | 3-Ethoxy Propionaldehyde | 3-Ethoxy-propionaldehyde | 16.0 | 8.8 | 7.4 | 112.1 |
| |  | | | | | |
| 327 | Ethoxyethyl Propionate | Propionic acid 2-ethoxy-ethyl ester | 16.2 | 3.3 | 8.8 | 155.5 |
| |  | | | | | |
| 328 | Ethyl Acetate | Acetic acid ethyl ester | 15.8 | 5.3 | 7.2 | 98.5 |
| |  | | | | | |
| 1016 | Ethyl Aceto Acetate (Keto) | 3-Oxo-butyric acid ethyl ester | 16.5 | 10.8 | 8.3 | 125.6 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

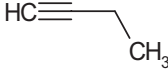
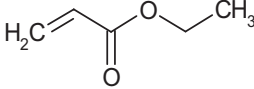
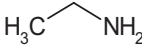
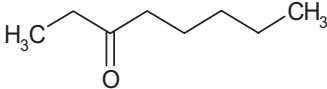
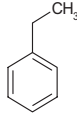
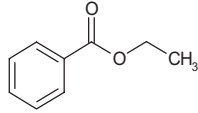
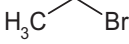
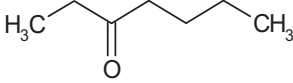
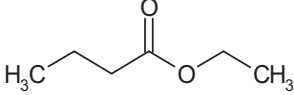
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|-----|--|--------------------------|------------|----------|---------------------|-----------------|
| 329 | Ethyl Acetylene  | But-1-yne | 15.1 | 3.4 | 5.0 | 81.5 |
| 330 | Ethyl Acrylate  | Acrylic acid ethyl ester | 15.5 | 7.1 | 5.5 | 108.8 |
| 331 | Ethyl Amine  | Ethylamine | 15.0 | 5.6 | 10.7 | 65.6 |
| 332 | Ethyl Amyl Ketone  | Octan-3-one | 16.2 | 4.5 | 4.1 | 156.0 |
| 333 | Ethyl Benzene  | Ethyl-benzene | 17.8 | 0.6 | 1.4 | 123.1 |
| 954 | Ethyl Benzoate  | Benzoic acid ethyl ester | 17.9 | 6.2 | 6.0 | 144.3 |
| 334 | Ethyl Bromide  | Bromo-ethane | 16.5 | 8.4 | 2.3 | 74.6 |
| 335 | Ethyl Butyl Ketone  | Heptan-3-one | 16.2 | 5.0 | 4.1 | 139.0 |
| 928 | Ethyl Butyrate  | Butyric acid ethyl ester | 15.5 | 5.6 | 5.0 | 132.9 |

TABLE A.1 (CONTINUED)

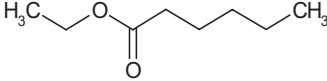
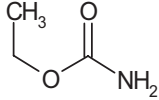
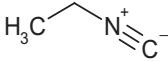
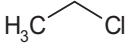
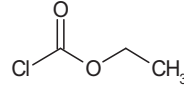
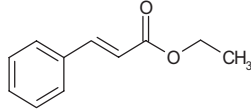
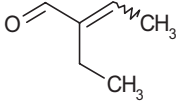
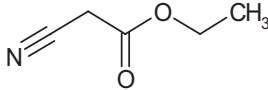
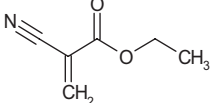
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|--|---------------------------------------|------------|----------|---------------------|-----------------|
| 929 | Ethyl Caproate  | Hexanoic acid ethyl ester | 15.5 | 3.2 | 5.9 | 149.6 |
| 336 | Ethyl Carbamate  | Carbamic acid ethyl ester | 16.8 | 10.1 | 13.0 | 91.2 |
| 337 | Ethyl Carbylamine  | Isocyano-ethane | 15.6 | 15.2 | 5.8 | 74.4 |
| 338 | Ethyl Chloride  | Chloro-ethane | 15.7 | 6.1 | 2.9 | 70.0 |
| 339 | Ethyl Chloroformate  | Ethyl chloridocarbonate | 15.5 | 10.0 | 6.7 | 95.6 |
| 340 | Ethyl Cinnamate  | (E)-3-Phenyl-acrylic acid ethyl ester | 18.4 | 8.2 | 4.1 | 166.8 |
| 341 | 2-Ethyl Croton Aldehyde  | 2-Ethyl-but-2-enal | 16.1 | 8.0 | 5.5 | 115.2 |
| 1042 | Ethyl Cyanoacetate  | Cyano-acetic acid ethyl ester | 16.7 | 7.9 | 8.3 | 107.1 |
| 342 | Ethyl Cyanoacrylate  | 2-Cyano-acrylic acid ethyl ester | 15.2 | 10.3 | 9.0 | 117.1 |

TABLE A.1 (CONTINUED)

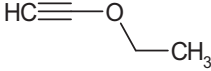
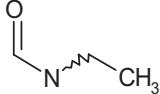
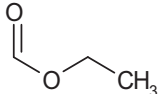
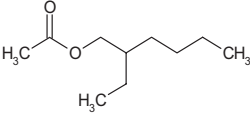
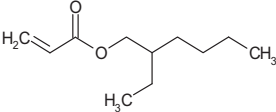
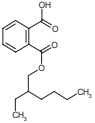
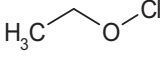
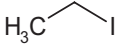
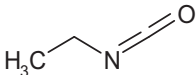
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|--|--|------------|----------|---------------------|-----------------|
| 343 | Ethyl Ethynylether  | Ethoxy-ethyne | 15.4 | 7.9 | 5.9 | 87.6 |
| 966 | N-Ethyl Formamide  | N-Ethyl-formamide | 17.2 | 10.0 | 14.0 | 76.5 |
| 344 | Ethyl Formate  | Formic acid ethyl ester | 15.5 | 8.4 | 8.4 | 80.2 |
| 346 | 2-Ethyl Hexyl Acetate  | Acetic acid 2-ethyl-hexyl ester | 15.8 | 2.9 | 5.1 | 196.0 |
| 347 | 2-Ethyl Hexyl Acrylate  | Acrylic acid 2-ethyl-hexyl ester | 14.8 | 4.7 | 3.4 | 208.2 |
| 1153 | Mono 2-Ethyl-Hexyl Phthalate (MEHP)  | Phthalic acid mono-(2-ethyl-hexyl) ester | 17.3 | 6.2 | 6.8 | 265.0 |
| 348 | Ethyl Hypochlorite  | Ethyl hypochlorite | 15.7 | 8.6 | 6.5 | 79.5 |
| 349 | Ethyl Iodide  | Iodo-ethane | 17.3 | 7.9 | 7.2 | 81.2 |
| 350 | Ethyl Isocyanate  | Isocyanato-ethane | 15.4 | 12.0 | 2.5 | 78.7 |

TABLE A.1 (CONTINUED)

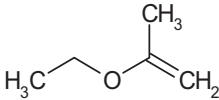
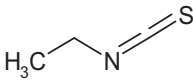
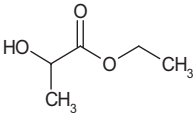
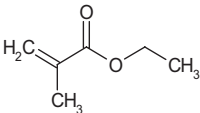
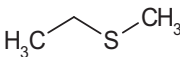
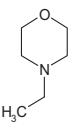
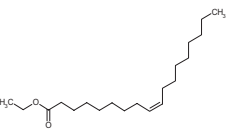
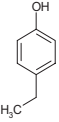
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|---|------------|----------|---------------------|-----------------|
| 351 | Ethyl Isopropenyl Ether | 2-Ethoxy-propene | 14.8 | 3.5 | 5.1 | 113.3 |
| |  | | | | | |
| 352 | Ethyl Isothiocyanate | Isothiocyanato-ethane | 17.2 | 14.7 | 9.0 | 87.1 |
| |  | | | | | |
| 353 | Ethyl Lactate | 2-Hydroxy-propionic acid ethyl ester | 16.0 | 7.6 | 12.5 | 115.0 |
| |  | | | | | |
| 354 | Ethyl Methacrylate | 2-Methyl-acrylic acid ethyl ester | 15.8 | 7.2 | 7.5 | 125.8 |
| |  | | | | | |
| 355 | Ethyl Methyl Sulfide | Methylsulfanyl-ethane | 17.1 | 4.8 | 2.5 | 91.2 |
| |  | | | | | |
| 1085 | 4-Ethyl Morpholine | 4-Ethyl-morpholine | 17.7 | 5.0 | 6.6 | 116.5 |
| |  | | | | | |
| 1117 | Ethyl Oleate | (Z)-Octadec-9-enoic acid ethyl ester | 14.5 | 3.8 | 3.7 | 357.3 |
| |  | | | | | |
| 1071 | 4-Ethyl Phenol | 4-Ethyl-phenol | 19.2 | 5.3 | 12.8 | 118.6 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

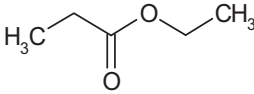
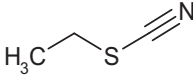
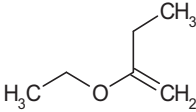
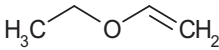
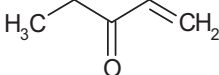
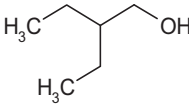
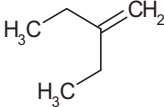
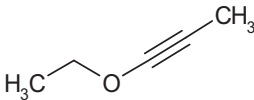
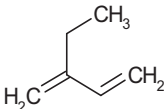
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|----------------------------|------------|----------|---------------------|-----------------|
| 1010 | Ethyl Propionate | Propionic acid ethyl ester | 15.5 | 6.1 | 4.9 | 115.5 |
| |  | | | | | |
| 356 | Ethyl Thiocyanate | Thiocyanato-ethane | 15.4 | 13.4 | 5.4 | 87.1 |
| |  | | | | | |
| 357 | 1-Ethyl Vinyl Ethyl Ether | 2-Ethoxy-but-1-ene | 15.3 | 4.2 | 4.6 | 125.6 |
| |  | | | | | |
| 358 | Ethyl Vinyl ether | Ethoxy-ethene | 14.9 | 4.9 | 5.6 | 94.9 |
| |  | | | | | |
| 359 | Ethyl Vinylketone | Pent-1-en-3-one | 15.8 | 11.3 | 4.5 | 99.3 |
| |  | | | | | |
| 360 | 2-Ethyl-1-Butanol | 2-Ethyl-butan-1-ol | 15.8 | 4.3 | 13.5 | 123.2 |
| |  | | | | | |
| 727 | 2-Ethyl-1-Butene | 3-Methylene-pentane | 14.9 | 1.7 | 3.5 | 123.1 |
| |  | | | | | |
| 361 | Ethyl-1-Propynylether | 1-Ethoxy-propyne | 15.9 | 6.4 | 5.4 | 101.6 |
| |  | | | | | |
| 362 | 2-Ethyl-1,3-Butadiene | 3-Methylene-pent-1-ene | 15.3 | 1.6 | 3.8 | 115.2 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

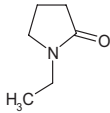
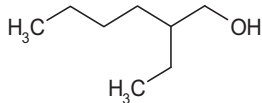
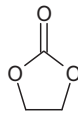
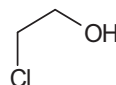
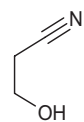
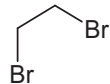
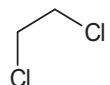
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|--------------------------|------------|----------|---------------------|-----------------|
| 961 | N-Ethyl-2-Pyrrolidone | 1-Ethyl-pyrrolidin-2-one | 18.0 | 12.0 | 7.0 | 113.9 |
| |  | | | | | |
| 345 | 2-Ethyl-hexanol | 2-Ethyl-hexan-1-ol | 15.9 | 3.3 | 11.8 | 156.6 |
| |  | | | | | |
| 1058 | Ethylene | Ethene | 15.0 | 2.0 | 3.8 | 63.0 |
| | $H_2C=CH_2$ | | | | | |
| 363 | Ethylene Carbonate | [1,3]Dioxolan-2-one | 19.4 | 21.7 | 5.1 | 66.0 |
| |  | | | | | |
| 364 | Ethylene Chlorohydrin | 2-Chloro-ethanol | 16.9 | 8.8 | 17.2 | 67.3 |
| |  | | | | | |
| 365 | Ethylene Cyanohydrin | 3-Hydroxy-propionitrile | 17.2 | 18.8 | 17.6 | 68.3 |
| |  | | | | | |
| 366 | Ethylene Dibromide | 1,2-Dibromo-ethane | 19.2 | 3.5 | 8.6 | 87.0 |
| |  | | | | | |
| 367 | Ethylene Dichloride | 1,2-Dichloro-ethane | 19.0 | 7.4 | 4.1 | 79.4 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

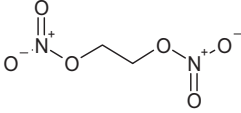
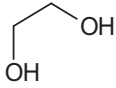
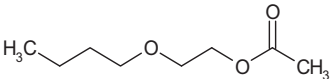
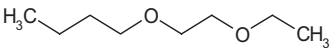
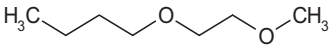
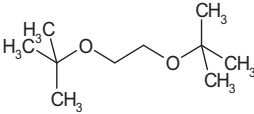
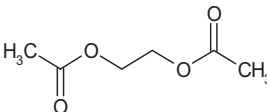
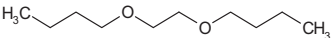
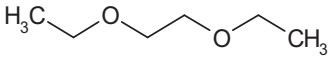
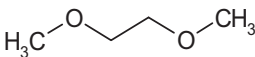
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|-----|---|--|------------|----------|---------------------|-----------------|
| 937 | Ethylene Dinitrate | 1,2-Bis-nitrooxy-ethane | 16.2 | 13.0 | 4.5 | 101.7 |
| |  | | | | | |
| 368 | Ethylene Glycol | Ethane-1,2-diol | 17.0 | 11.0 | 26.0 | 55.8 |
| |  | | | | | |
| 369 | Ethylene Glycol Butyl Ether Acetate | Acetic acid 2-butoxy-ethyl ester | 15.3 | 4.5 | 8.8 | 171.2 |
| |  | | | | | |
| 752 | Ethylene Glycol Butyl Ethyl Ether | 1-(2-Ethoxy-ethoxy)-butane | 15.3 | 4.9 | 4.6 | 175.5 |
| |  | | | | | |
| 753 | Ethylene Glycol Butyl Methyl Ether | 1-(2-Methoxy-ethoxy)-butane | 15.5 | 5.2 | 4.9 | 157.2 |
| |  | | | | | |
| 370 | Ethylene Glycol Di-t-Butyl Ether | 2-(2-tert-Butoxy-ethoxy)-2-methylpropane | 14.7 | 4.1 | 8.2 | 210.0 |
| |  | | | | | |
| 371 | Ethylene Glycol Diacetate | Acetic acid 2-acetoxy-ethyl ester | 16.2 | 4.7 | 9.8 | 132.8 |
| |  | | | | | |
| 758 | Ethylene Glycol Dibutyl Ether | 1-(2-Butoxy-ethoxy)-butane | 15.7 | 4.5 | 4.2 | 209.5 |
| |  | | | | | |
| 760 | Ethylene Glycol Diethyl Ether | 1,2-Diethoxy-ethane | 15.4 | 5.4 | 5.2 | 141.6 |
| |  | | | | | |
| 775 | Ethylene Glycol Dimethyl Ether | 1,2-Dimethoxy-ethane | 15.4 | 6.3 | 6.0 | 103.9 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

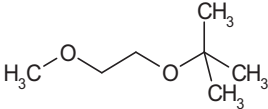
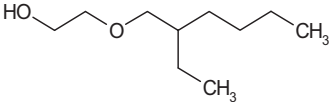
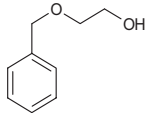
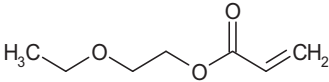
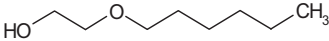
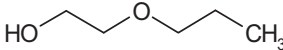
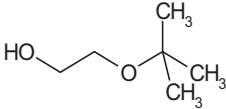
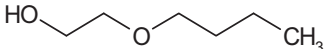
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|---|------------|----------|---------------------|-----------------|
| 372 | Ethylene Glycol Methyl t-Butyl Ether* | 2-(2-Methoxy-ethoxy)- 2-methyl-propane | 15.3 | 5.1 | 8.2 | 157.4 |
| |  | | | | | |
| 373 | Ethylene Glycol Mono-2-Ethyl Hexyl Ether* | 2-(2-Ethyl-hexyloxy)- ethanol | 16.0 | 4.1 | 10.5 | 194.7 |
| |  | | | | | |
| 731 | Ethylene Glycol Monobenzyl Ether | 2-Benzyloxy-ethanol | 17.8 | 5.9 | 12.2 | 143.0 |
| |  | | | | | |
| 771 | Ethylene Glycol Monoethyl Ether Acrylate | Acrylic acid 2-ethoxy- ethyl ester | 15.9 | 5.1 | 9.3 | 147.7 |
| |  | | | | | |
| 1056 | Ethylene Glycol Mono n-Hexyl Ether | 2-Hexyloxy-ethanol | 16.0 | 5.0 | 11.4 | 164.5 |
| |  | | | | | |
| 1004 | Ethylene Glycol Mono n-Propyl Ether | 2-Propoxy-ethanol | 16.1 | 8.7 | 13.5 | 114.1 |
| |  | | | | | |
| 374 | Ethylene Glycol Mono-t-Butyl Ether Commercial | 2-tert-Butoxy-ethanol | 15.3 | 6.1 | 10.8 | 131.0 |
| |  | | | | | |
| 375 | Ethylene Glycol Monobutyl Ether Commercial | 2-Butoxy-ethanol | 16.0 | 5.1 | 12.3 | 131.6 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

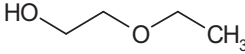
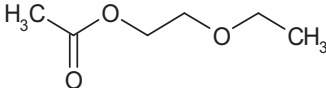
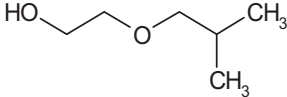
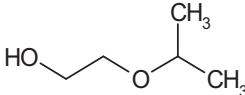
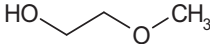
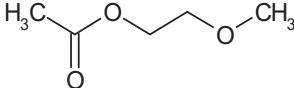
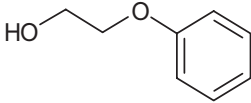
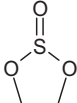
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|-----|---|-----------------------------------|------------|----------|---------------------|-----------------|
| 376 | Ethylene Glycol Monoethyl Ether Commercial | 2-Ethoxy-ethanol | 16.2 | 9.2 | 14.3 | 97.8 |
| |  | | | | | |
| 377 | Ethylene Glycol Monoethyl Ether Acetate Commercial | Acetic acid 2-ethoxy-ethyl ester | 15.9 | 4.7 | 10.6 | 136.1 |
| |  | | | | | |
| 378 | Ethylene Glycol Monoisobutyl Ether Commercial | 2-Isobutoxy-ethanol | 15.2 | 4.9 | 9.6 | 132.5 |
| |  | | | | | |
| 379 | Ethylene Glycol Monoisopropyl Ether | 2-Isopropoxy-ethanol | 16.0 | 8.2 | 13.1 | 115.8 |
| |  | | | | | |
| 380 | Ethylene Glycol Monomethyl Ether Commercial | 2-Methoxy-ethanol | 16.2 | 9.2 | 16.4 | 79.1 |
| |  | | | | | |
| 381 | Ethylene Glycol Monomethyl Ether Acetate | Acetic acid 2-methoxy-ethyl ester | 15.9 | 5.5 | 11.6 | 121.6 |
| |  | | | | | |
| 924 | Ethylene Glycol Monophenyl Ether | 2-Phenoxy-ethanol | 17.0 | 7.2 | 12.3 | 125.3 |
| |  | | | | | |
| 789 | Ethylene Glycol Sulfite | [1,3,2]Dioxathiolane 2-oxide | 20.0 | 15.9 | 5.1 | 75.1 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

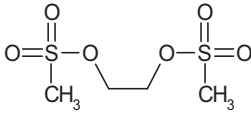


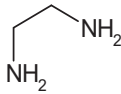

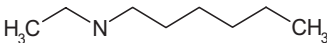
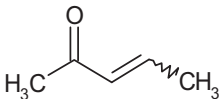
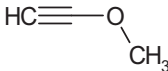
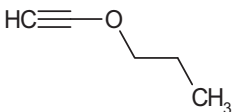
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|-----|---|--|------------|----------|---------------------|-----------------|
| 382 | Ethylene Methyl Sulfonate | Methanesulfonic acid 2-methanesulfonyloxyethyl ester | 16.9 | 9.3 | 9.6 | 97.9 |
| |  | | | | | |
| 383 | Ethylene Oxide | Oxirane | 15.6 | 10.0 | 11.0 | 49.9 |
| |  | | | | | |
| 384 | Ethylene Sulfide | Thiirane | 19.3 | 9.0 | 6.5 | 59.5 |
| |  | | | | | |
| 385 | Ethylenediamine | Ethane-1,2-diamine | 16.6 | 8.8 | 17.0 | 67.3 |
| |  | | | | | |
| 386 | Ethyleneimine | Aziridine | 18.6 | 9.8 | 7.7 | 51.8 |
| |  | | | | | |
| 946 | 2-Ethylhexylamine | Ethyl-hexyl-amine | 15.7 | 4.2 | 6.1 | 163.3 |
| |  | | | | | |
| 387 | Ethylidene Acetone | Pent-3-en-2-one | 16.2 | 12.1 | 4.5 | 99.0 |
| |  | | | | | |
| 389 | Ethynyl Methyl Ether | Methoxy-ethyne | 15.8 | 8.1 | 6.5 | 70.1 |
| |  | | | | | |
| 388 | Ethynyl Propyl Ether | 1-Ethynyloxy-propane | 15.4 | 3.8 | 5.4 | 104.1 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

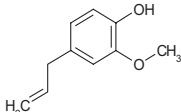
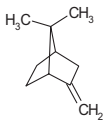
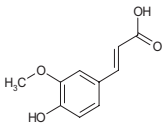
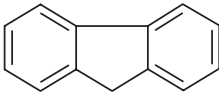
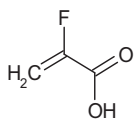
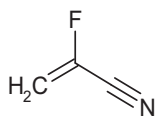
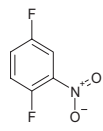
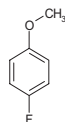
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|--|---|------------|----------|---------------------|-----------------|
| 1109 | Eugenol  | 4-Allyl-2-methoxy-phenol | 19.0 | 7.5 | 13.0 | 154.0 |
| 898 | Fenchene(Alfa)  | 7,7-Dimethyl-2-methylene-bicyclo[2.2.1]heptane | 16.9 | 1.5 | 3.1 | 157.3 |
| 1104 | Ferulic Acid  | (E)-3-(4-Hydroxy-3-methoxy-phenyl)-acrylic acid | 19.0 | 6.6 | 15.1 | 155.5 |
| 877 | Fluorene  | 9H-Fluorene | 20.0 | 1.7 | 1.7 | 138.2 |
| 390 | 1-Fluoro Acrylic Acid  | 2-Fluoro-acrylic acid | 16.0 | 8.7 | 13.0 | 90.0 |
| 391 | 1-Fluoro Acrylonitrile  | 2-Fluoro-acrylonitrile | 14.1 | 15.4 | 5.7 | 88.8 |
| 827 | 4-Fluoro-3-Nitrobenzofluoride  | 1,4-Difluoro-2-nitro-benzene | 19.4 | 7.2 | 3.7 | 108.4 |
| 799 | p-Fluoroanisole  | 1-Fluoro-4-methoxy-benzene | 18.7 | 7.3 | 6.7 | 113.2 |

TABLE A.1 (CONTINUED)

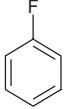
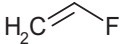

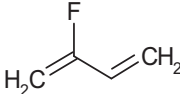
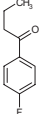

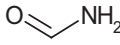
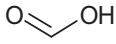

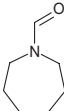
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|-----|---|-------------------------------------|------------|----------|---------------------|-----------------|
| 392 | Fluorobenzene  | Fluoro-benzene | 18.7 | 6.1 | 2.0 | 94.7 |
| 393 | Fluoroethylene  | Fluoro-ethene | 15.2 | 7.0 | 1.0 | 57.5 |
| 394 | Fluoromethane  | Fluoromethane | 13.4 | 10.6 | 9.5 | 40.7 |
| 395 | Fluoroprene  | 2-Fluoro-buta-1,3-diene | 14.2 | 5.8 | 1.0 | 85.5 |
| 820 | 4-Fluoropropiophenone  | 1-(4-Fluoro-phenyl)- butan-1-one | 19.6 | 7.1 | 3.5 | 138.8 |
| 396 | Formaldehyde  | Formaldehyde | 12.8 | 14.4 | 15.4 | 36.8 |
| 397 | Formamide  | Formamide | 17.2 | 26.2 | 19.0 | 39.8 |
| 398 | Formic Acid  | Formic acid | 14.3 | 11.9 | 16.6 | 37.8 |
| 741 | Formyl Fluoride  | Formyl fluoride | 15.0 | 10.1 | 8.6 | 56.5 |
| 400 | N-Formyl Hexamethylene Imine  | Azepane-1-carbaldehyde | 18.5 | 10.4 | 7.6 | 127.0 |

TABLE A.1 (CONTINUED)

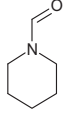
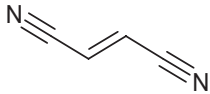

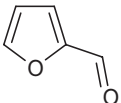
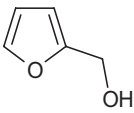
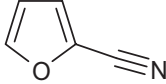
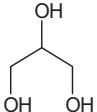
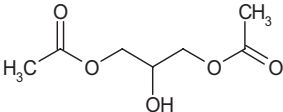
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|--|--|------------|----------|---------------------|-----------------|
| 401 | N-Formyl Piperidine  | Piperidine-1- carbaldehyde | 18.7 | 10.6 | 7.8 | 111.5 |
| 402 | Fumaronitrile  | (E)-But-2-enedinitrile | 16.7 | 13.6 | 7.8 | 83.0 |
| 403 | Furan  | Furan | 17.8 | 1.8 | 5.3 | 72.5 |
| 404 | Furfural  | Furan-2-carbaldehyde | 18.6 | 14.9 | 5.1 | 83.2 |
| 405 | Furfuryl Alcohol  | Furan-2-yl-methanol | 17.4 | 7.6 | 15.1 | 86.5 |
| 994 | 2-Furonitrile  | Furan-2-carbonitrile | 18.4 | 15.0 | 8.2 | 87.5 |
| 406 | Glycerol  | Propane-1,2,3-triol | 17.4 | 12.1 | 29.3 | 73.3 |
| 1222 | Glycerol Diacetate (Isomer Mix)  | Acetic acid 3-acetoxy-2- hydroxy-propyl ester | 16.4 | 8.9 | 14.2 | 149.4 |

TABLE A.1 (CONTINUED)

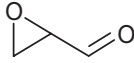
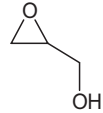
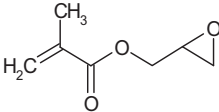
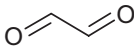
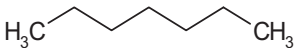
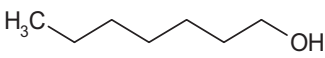
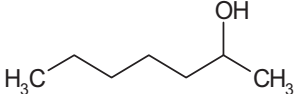
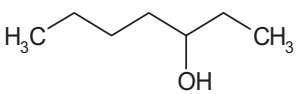
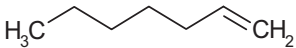
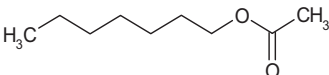
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|---|------------|----------|---------------------|-----------------|
| 990 | Glycidaldehyde* | Oxirane-2-carbaldehyde | 17.5 | 13.4 | 9.8 | 63.2 |
| |  | | | | | |
| 1087 | Glycidol | Oxiranyl-methanol | 18.2 | 9.0 | 17.9 | 66.5 |
| |  | | | | | |
| 407 | Glycidyl Methacrylate | 2-Methyl-acrylic acid oxiranylmethyl ester | 16.3 | 8.5 | 5.7 | 136.4 |
| |  | | | | | |
| 408 | Glyoxal (Ethandial) | Ethanedial | 15.0 | 17.0 | 13.3 | 50.9 |
| |  | | | | | |
| 409 | Heptane | Heptane | 15.3 | 0 | 0 | 147.4 |
| |  | | | | | |
| 931 | 1-Heptanol | Heptan-1-ol | 16.0 | 5.3 | 11.7 | 141.4 |
| |  | | | | | |
| 1044 | 2-Heptanol | Heptan-2-ol | 15.7 | 5.4 | 11.7 | 142.9 |
| |  | | | | | |
| 1013 | 3-Heptanol | Heptan-3-ol | 15.9 | 5.4 | 11.7 | 141.2 |
| |  | | | | | |
| 410 | 1-Heptene | Hept-1-ene | 15.0 | 1.1 | 2.6 | 141.9 |
| |  | | | | | |
| 411 | n-Heptyl Acetate | Acetic acid heptyl ester | 15.8 | 2.9 | 5.5 | 181.1 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

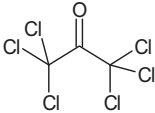
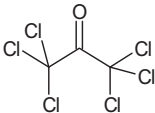
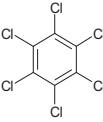
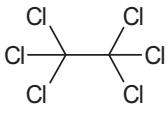
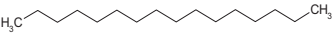
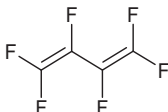
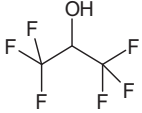
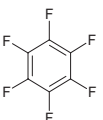
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|---|------------|----------|---------------------|-----------------|
| 706 | Hexachloroacetone P Based on 0 Dipole Moment | 1,1,1,3,3,3-Hexachloro- propan-2-one | 18.3 | 0 | 0 | 151.9 |
| |  | | | | | |
| 707 | Hexachloroacetone P based on group contributions | 1,1,1,3,3,3-Hexachloro- propan-2-one | 18.3 | 6.6 | 6.4 | 151.9 |
| |  | | | | | |
| 1128 | Hexachlorobenzene (Lindane) | 1,2,3,4,5,6-Hexachloro- benzene | 21.9 | 2.1 | 0 | 139.3 |
| |  | | | | | |
| 1121 | Hexachloroethane | 1,1,1,2,2,2-Hexachloro- ethane | 22.0 | 4.7 | 0 | 113.2 |
| |  | | | | | |
| 412 | Hexadecane | Hexadecane | 16.3 | 0 | 0 | 294.1 |
| |  | | | | | |
| 413 | Hexafluoro 1,3-Butadiene | 1,1,2,3,4,4-Hexafluoro- buta-1,3-diene | 13.8 | 0 | 0 | 104.3 |
| |  | | | | | |
| 414 | Hexafluoro Isopropanol | 1,1,1,3,3,3-Hexafluoro- propan-2-ol | 17.2 | 4.5 | 14.7 | 105.3 |
| |  | | | | | |
| 1119 | Hexafluorobenzene | 1,2,3,4,5,6-Hexafluoro- benzene | 16.9 | 0 | 0 | 115.8 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

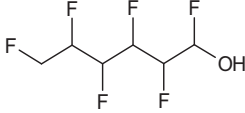
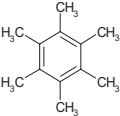
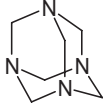
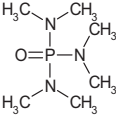
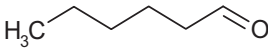
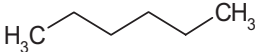
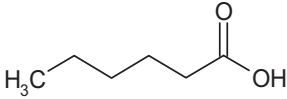
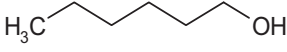
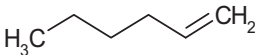
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|---|------------|----------|---------------------|-----------------|
| 415 | Hexafluorohexanol | 1,2,3,4,5,6-Hexafluoro- hexan-1-ol | 15.1 | 4.4 | 9.9 | 123.3 |
| |  | | | | | |
| 1123 | Hexamethyl Benzene | 1,2,3,4,5,6-Hexamethyl- benzene | 19.2 | 1.6 | 0 | 152.7 |
| |  | | | | | |
| 948 | Hexamethylenetetramine | 1,3,5,7-Tetraaza- tricyclo[3.3.1.1*3,7*] decane | 19.4 | 11.6 | 13.8 | 105.3 |
| |  | | | | | |
| 416 | Hexamethylphosphoramide | | 18.5 | 8.6 | 11.3 | 175.7 |
| |  | | | | | |
| 1097 | Hexanal | Hexanal | 15.8 | 8.5 | 5.4 | 120.2 |
| |  | | | | | |
| 417 | n-Hexane | n-Hexane | 14.9 | 0 | 0 | 131.6 |
| |  | | | | | |
| 1022 | Hexanoic Acid | Hexanoic acid | 15.0 | 4.1 | 9.4 | 125.9 |
| |  | | | | | |
| 930 | 1-Hexanol | Hexan-1-ol | 15.9 | 5.8 | 12.5 | 124.9 |
| |  | | | | | |
| 418 | 1-Hexene* | Hex-1-ene | 14.7 | 1.1 | 0 | 126.1 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

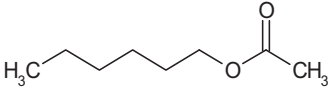
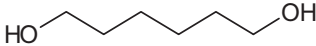
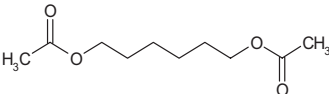
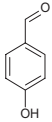
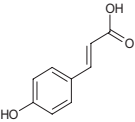
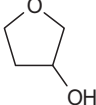
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|---|------------|----------|---------------------|-----------------|
| 419 | Hexyl Acetate | Acetic acid hexyl ester | 15.8 | 2.9 | 5.9 | 165.0 |
| |  | | | | | |
| 420 | Hexylene Glycol | Hexane-1,6-diol | 15.7 | 8.4 | 17.8 | 123.0 |
| |  | | | | | |
| 421 | Hexylene Glycol Diacetate | Acetic acid 6-acetoxy- hexyl ester | 15.3 | 4.5 | 7.2 | 204.3 |
| |  | | | | | |
| 422 | Hydrazine | Hydrazine | 14.2 | 8.3 | 8.9 | 32.1 |
| | $\text{H}_2\text{N}-\text{NH}_2$ | | | | | |
| 423 | Hydrogen Cyanide | Nitrilomethane | 12.3 | 17.6 | 9.0 | 39.3 |
| | $\text{HC}\equiv\text{N}$ | | | | | |
| 1173 | Hydrogen Peroxide | Hydrogen peroxide | 15.5 | 12.2 | 42.7 | 23.2 |
| | $\text{HO}-\text{OH}$ | | | | | |
| 424 | Hydrogen Sulfide | | 17.9 | 6.0 | 10.2 | 36.1 |
| | SH_2 | | | | | |
| 905 | 4-Hydroxy Benzaldehyde | 4-Hydroxy- benzaldehyde | 19.4 | 15.2 | 14.5 | 108.2 |
| |  | | | | | |
| 1105 | 4-Hydroxy Cinnamic Acid | (E)-3-(4-Hydroxy- phenyl)-acrylic acid | 19.1 | 6.7 | 15.9 | 128.3 |
| |  | | | | | |
| 991 | 3-Hydroxy Tetrahydrofuran | Tetrahydro-furan-3-ol | 18.9 | 9.4 | 16.3 | 80.0 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

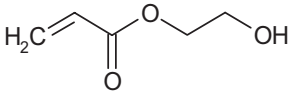
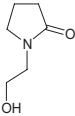
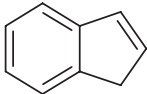
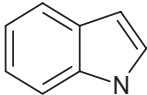
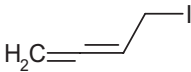
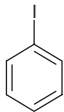

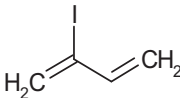
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|--------------------------------------|------------|----------|---------------------|-----------------|
| 425 | Hydroxyethyl Acrylate | Acrylic acid 2-hydroxy-ethyl ester | 16.0 | 13.2 | 13.4 | 114.9 |
| |  | | | | | |
| 960 | N-(2-Hydroxyethyl)-2-Pyrrolidone | 1-(2-Hydroxy-ethyl)-pyrrolidin-2-one | 18.0 | 9.2 | 15.7 | 113.4 |
| |  | | | | | |
| 1078 | Indene | 1H-Indene | 18.7 | 2.6 | 9.0 | 116.5 |
| |  | | | | | |
| 831 | Indole | 1H-Indole | 19.8 | 7.5 | 6.5 | 110.1 |
| |  | | | | | |
| 426 | 4-Iodo-1,2-Butadiene | 4-Iodo-buta-1,2-diene | 17.4 | 6.3 | 6.2 | 105.1 |
| |  | | | | | |
| 427 | Iodobenzene* | Iodo-benzene | 19.5 | 6.0 | 6.1 | 114.4 |
| |  | | | | | |
| 1126 | Iodoform | Triiodo-methane | 20.2 | 3.6 | 10.6 | 98.2 |
| |  | | | | | |
| 428 | Iodoprene | 2-Iodo-buta-1,3-diene | 17.2 | 2.5 | 6.2 | 104.2 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

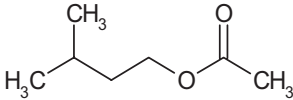
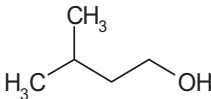
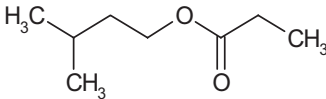
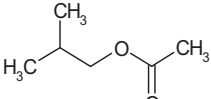
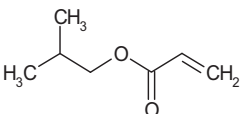
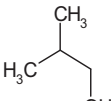
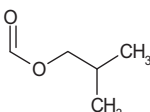
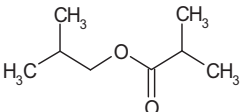
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|---|------------|----------|---------------------|-----------------|
| 429 | Isoamyl Acetate | Acetic acid 3-methyl- butyl ester | 15.3 | 3.1 | 7.0 | 148.8 |
| |  | | | | | |
| 754 | Isoamyl Alcohol (3-Methyl-1-Butanol) | 3-Methyl-butan-1-ol | 15.8 | 5.2 | 13.3 | 109.4 |
| |  | | | | | |
| 925 | Isoamyl Propionate | Propionic acid 3-methyl- butyl ester | 15.7 | 5.2 | 5.6 | 165.7 |
| |  | | | | | |
| 430 | Isobutyl Acetate | Acetic acid isobutyl ester | 15.1 | 3.7 | 6.3 | 133.5 |
| |  | | | | | |
| 770 | Isobutyl Acrylate | Acrylic acid isobutyl ester | 15.5 | 6.2 | 5.0 | 145.0 |
| |  | | | | | |
| 431 | Isobutyl Alcohol | 2-Methyl-propan-1-ol | 15.1 | 5.7 | 15.9 | 92.8 |
| |  | | | | | |
| 1035 | Isobutyl Formate | Formic acid isobutyl ester | 15.5 | 6.5 | 6.7 | 117.4 |
| |  | | | | | |
| 432 | Isobutyl Isobutyrate | Isobutyric acid isobutyl ester | 15.1 | 2.9 | 5.9 | 163.0 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

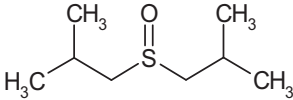
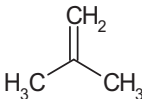
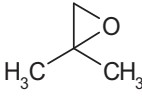
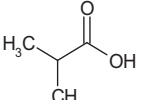
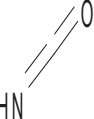
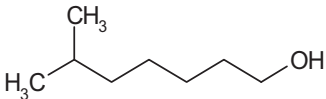
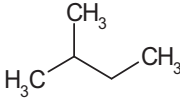
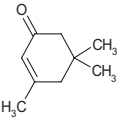
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|--|------------|----------|---------------------|-----------------|
| 786 | Isobutyl Sulfoxide  | 2-Methyl-1-(2-methyl- propane-1-sulfinyl)- propane | 16.3 | 10.5 | 6.1 | 195.0 |
| 433 | Isobutylene  | Isobutene | 14.5 | 2.0 | 1.5 | 89.4 |
| 434 | Isobutyleneoxide  | 2,2-Dimethyl-oxirane | 16.1 | 4.8 | 5.8 | 90.0 |
| 1039 | Isobutyric Acid  | Isobutyric acid | 16.5 | 5.4 | 11.1 | 93.4 |
| 435 | Isocyanic Acid  | Imino-methanone | 15.8 | 10.5 | 13.6 | 37.7 |
| 436 | Isooctyl Alcohol  | 6-Methyl-heptan-1-ol | 14.4 | 7.3 | 12.9 | 156.6 |
| 437 | Isopentane  | 2-Methyl-butane | 13.7 | 0 | 0 | 117.4 |
| 438 | Isophorone  | 3,5,5-Trimethyl- cyclohex-2-enone | 16.6 | 8.2 | 7.4 | 150.5 |

TABLE A.1 (CONTINUED)

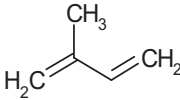
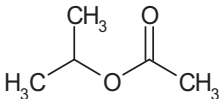
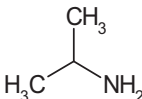
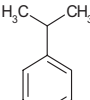
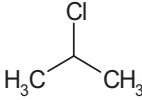
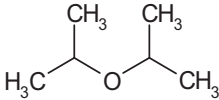
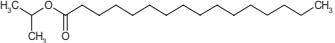
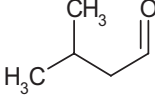
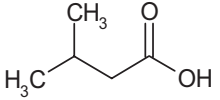
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|-----------------------------------|------------|----------|---------------------|-----------------|
| 439 | Isoprene (2-Methyl-1,3-Butadiene) | 2-Methyl-buta-1,3-diene | 14.7 | 1.4 | 4.1 | 100.9 |
| |  | | | | | |
| 440 | Isopropyl Acetate | Acetic acid isopropyl ester | 14.9 | 4.5 | 8.2 | 117.1 |
| |  | | | | | |
| 441 | Isopropyl Amine (2-Propan Amine) | Isopropylamine | 14.8 | 4.4 | 6.6 | 86.8 |
| |  | | | | | |
| 878 | Isopropyl Benzene (Cumene) | Isopropyl-benzene | 18.1 | 1.2 | 1.2 | 139.1 |
| |  | | | | | |
| 442 | Isopropyl Chloride (2-Chloro Propane) | 2-Chloro-propane | 15.9 | 8.3 | 2.1 | 91.7 |
| |  | | | | | |
| 443 | Isopropyl Ether | 2-Isopropoxy-propane | 13.7 | 3.9 | 2.3 | 140.9 |
| |  | | | | | |
| 444 | Isopropyl Palmitate | Hexadecanoic acid isopropyl ester | 14.3 | 3.9 | 3.7 | 330.0 |
| |  | | | | | |
| 445 | Isovaleraldehyde | 3-Methyl-butylaldehyde | 14.7 | 9.5 | 5.0 | 106.0 |
| |  | | | | | |
| 1040 | Isovaleric Acid | 3-Methyl-butyric acid | 16.4 | 4.1 | 10.7 | 111.0 |
| |  | | | | | |

TABLE A.1 (CONTINUED)


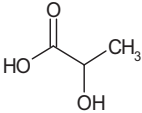
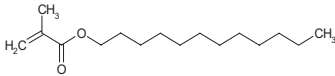

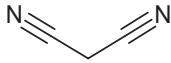
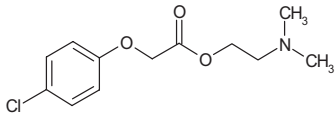
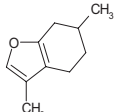
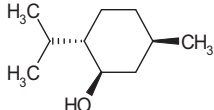
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|---|------------|----------|---------------------|-----------------|
| 446 | Isoxazole | Isoxazole | 18.8 | 13.4 | 11.2 | 64.1 |
| |  | | | | | |
| 447 | Ketene | Ethenone | 15.4 | 7.3 | 5.8 | 53.0 |
| | $\text{H}_2\text{C}=\text{O}$ | | | | | |
| 709 | Lactic Acid (DL) | 2-Hydroxy-propionic acid | 17.0 | 8.3 | 28.4 | 72.1 |
| |  | | | | | |
| 448 | Lauryl Methacrylate | 2-Methyl-acrylic acid dodecyl ester | 14.4 | 2.2 | 5.1 | 293.1 |
| |  | | | | | |
| 980 | Maleic Anhydride | Furan-2,5-dione | 20.2 | 18.1 | 12.6 | 66.3 |
| |  | | | | | |
| 449 | Malononitrile | Malononitrile | 17.7 | 18.4 | 6.7 | 55.5 |
| |  | | | | | |
| 1208 | Meclofenoxate (Base Only) | (4-Chloro-phenoxy)- acetic acid 2- dimethylamino-ethyl ester | 16.0 | 6.2 | 9.0 | 198.3 |
| |  | | | | | |
| 1129 | Menthofuran | 3,6-Dimethyl-4,5,6,7- tetrahydro-benzofuran | 17.2 | 4.6 | 5.6 | 158.0 |
| |  | | | | | |
| 1132 | L-Menthol | (1R,2S,5R)-2-Isopropyl- 5-methyl-cyclohexanol | 16.6 | 4.7 | 10.6 | 175.6 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

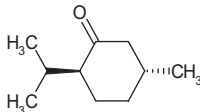
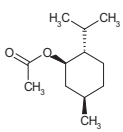
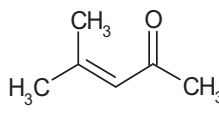
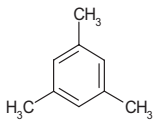
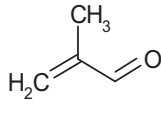
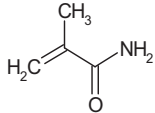
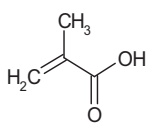
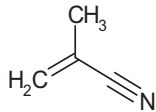
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|--|------------|----------|---------------------|-----------------|
| 1130 | L-Menthone | (2S,5R)-2-Isopropyl-5-methyl-cyclohexanone | 17.0 | 8.1 | 4.4 | 172.3 |
| |  | | | | | |
| 1131 | L-Menthyl Acetate | Acetic acid (1R,2S,5R)-2-isopropyl-5-methyl-cyclohexyl ester | 16.8 | 4.7 | 4.9 | 215.8 |
| |  | | | | | |
| 450 | Mesityl Oxide | 4-Methyl-pent-3-en-2-one | 16.4 | 6.1 | 6.1 | 115.6 |
| |  | | | | | |
| 451 | Mesitylene | Mesitylene | 18.0 | 0 | 0.6 | 139.8 |
| |  | | | | | |
| 452 | Methacrylaldehyde | 2-Methyl-propenal | 15.7 | 11.1 | 7.4 | 83.3 |
| |  | | | | | |
| 453 | Methacrylamide | 2-Methyl-acrylamide | 15.8 | 11.0 | 11.6 | 76.0 |
| |  | | | | | |
| 454 | Methacrylic Acid | 2-Methyl-acrylic acid | 15.8 | 2.8 | 10.2 | 84.8 |
| |  | | | | | |
| 455 | Methacrylonitrile | 2-Methyl-acrylonitrile | 15.8 | 15.1 | 5.4 | 83.9 |
| |  | | | | | |

TABLE A.1 (CONTINUED)


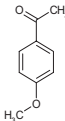
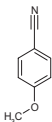
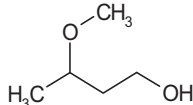
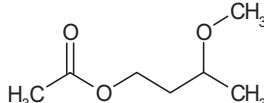
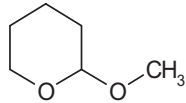

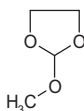
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|--|---------------------------------------|------------|----------|---------------------|-----------------|
| 456 | Methanol  | Methanol | 15.1 | 12.3 | 22.3 | 40.7 |
| 793 | 4-Methoxy Acetophenone  | 1-(4-Methoxy-phenyl)- ethanone | 18.9 | 11.2 | 7.0 | 137.8 |
| 781 | 4-Methoxy Benzonitrile  | 4-Methoxy-benzonitrile | 19.4 | 16.7 | 5.4 | 121.0 |
| 1003 | 3-Methoxy Butanol  | 3-Methoxy-butan-1-ol | 15.3 | 5.4 | 13.6 | 113.2 |
| 1001 | 3-Methoxy Butyl Acetate  | Acetic acid 3-methoxy- butyl ester | 15.3 | 4.1 | 8.1 | 153.9 |
| 996 | 2-Methoxy Tetrahydropyran  | 2-Methoxy-tetrahydro- pyran | 17.2 | 6.6 | 6.0 | 105.1 |
| 457 | 1-Methoxy-1,3-Butadiene  | 1-Methoxy-buta-1,3- diene | 15.5 | 8.3 | 5.4 | 101.8 |
| 992 | 2-Methoxy-1,3-Dioxolane  | 2-Methoxy- [1,3]dioxolane | 17.8 | 8.4 | 7.7 | 95.3 |

TABLE A.1 (CONTINUED)

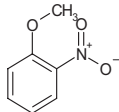
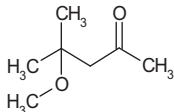
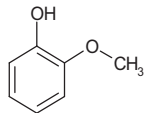
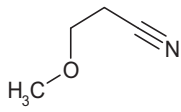
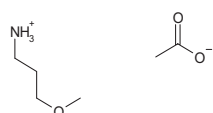
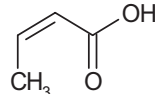

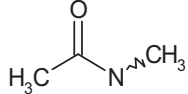
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|--|------------|----------|---------------------|-----------------|
| 1021 | 1-Methoxy-2-Nitrobenzene  | 1-Methoxy-2-nitro- benzene | 19.6 | 16.3 | 5.5 | 123.5 |
| 458 | Methoxyhexanone (Pentoxone)  | 4-Methoxy-4-methyl- pentan-2-one | 15.3 | 6.0 | 5.9 | 143.5 |
| 459 | <i>o</i> -Methoxyphenol (Guaiacol)  | 2-Methoxy-phenol | 18.0 | 8.2 | 13.3 | 109.5 |
| 460 | 3-Methoxypropionitrile  | 3-Methoxy-propionitrile | 16.6 | 14.4 | 7.8 | 91.1 |
| 1192 | 3-Methoxypropyl Amine/Acetic Acid  | Acetate 3-methoxy- propyl-ammonium; | 17.2 | 22.5 | 23.5 | |
| 461 | 2-Methyl (cis) Acrylic Acid  | (Z)-But-2-enoic acid | 16.8 | 5.2 | 12.4 | 83.9 |
| 463 | Methyl 1-Propenyl Ether  | 1-Methoxy-propene | 15.0 | 4.3 | 5.7 | 93.5 |
| 958 | N-Methyl Acetamide  | N-Methyl-acetamide | 16.9 | 18.7 | 13.9 | 76.9 |

TABLE A.1 (CONTINUED)

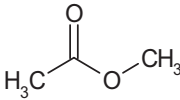
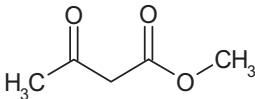
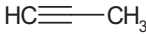
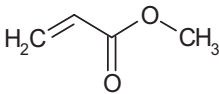
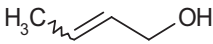
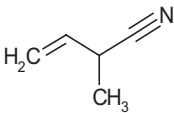
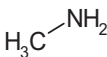
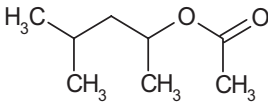
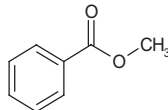
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|--|------------|----------|---------------------|-----------------|
| 464 | Methyl Acetate | Acetic acid methyl ester | 15.5 | 7.2 | 7.6 | 79.7 |
| |  | | | | | |
| 1037 | Methyl Aceto Acetate | 3-Oxo-butyric acid methyl ester | 16.4 | 8.6 | 8.9 | 108.3 |
| |  | | | | | |
| 465 | Methyl Acetylene | Propyne | 15.1 | 3.8 | 9.2 | 59.6 |
| |  | | | | | |
| 467 | Methyl Acrylate | Acrylic acid methyl ester | 15.3 | 6.7 | 9.4 | 90.3 |
| |  | | | | | |
| 468 | 3-Methyl Allyl Alcohol | But-2-en-1-ol | 16.0 | 6.0 | 15.5 | 84.4 |
| |  | | | | | |
| 469 | Methyl Allyl Cyanide | 2-Methyl-but-3- enenitrile | 16.4 | 11.3 | 5.1 | 97.7 |
| |  | | | | | |
| 470 | Methyl Amine | Methylamine | 13.0 | 7.3 | 17.3 | 44.4 |
| |  | | | | | |
| 471 | Methyl Amyl Acetate | Acetic acid 1,3- dimethyl-butyl ester | 15.2 | 3.1 | 6.8 | 167.4 |
| |  | | | | | |
| 472 | Methyl Benzoate* | Benzoic acid methyl ester | 18.9 | 8.2 | 4.7 | 124.9 |
| |  | | | | | |

TABLE A.1 (CONTINUED)


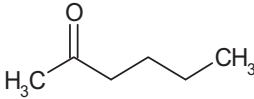

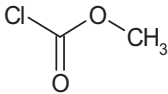
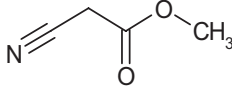
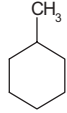
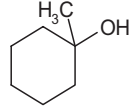
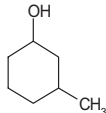
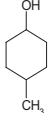
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|-----------------------------------|------------|----------|---------------------|-----------------|
| 473 | Methyl Bromide | Bromomethane | 17.0 | 8.8 | 2.6 | 56.8 |
| |  | | | | | |
| 474 | Methyl Butyl Ketone | Hexan-2-one | 15.3 | 6.1 | 4.1 | 123.6 |
| |  | | | | | |
| 475 | Methyl Chloride | Chloromethane | 15.3 | 6.1 | 3.9 | 55.4 |
| |  | | | | | |
| 476 | Methyl Chloroformate | Methyl chloridocarbonate | 16.3 | 9.5 | 8.5 | 77.3 |
| |  | | | | | |
| 1041 | Methyl Cyanoacetate | Cyano-acetic acid methyl ester | 16.8 | 14.8 | 9.1 | 88.3 |
| |  | | | | | |
| 477 | Methyl Cyclohexane | Methyl-cyclohexane | 16.0 | 0 | 1.0 | 128.3 |
| |  | | | | | |
| 1030 | 1-Methyl Cyclohexanol | 1-Methyl-cyclohexanol | 17.1 | 6.4 | 12.5 | 123.4 |
| |  | | | | | |
| 1031 | 3-Methyl Cyclohexanol (mix) | 3-Methyl-cyclohexanol | 17.2 | 6.4 | 12.5 | 124.8 |
| |  | | | | | |
| 1032 | 4-Methyl Cyclohexanol (mix) | 4-Methyl-cyclohexanol | 17.2 | 6.3 | 12.5 | 125.5 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

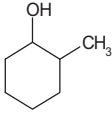
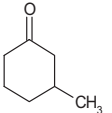
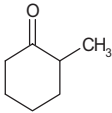
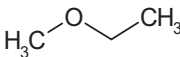
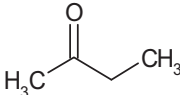
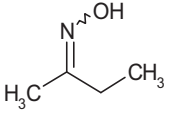
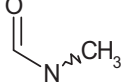
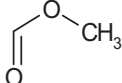
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|----------------------------|------------|----------|---------------------|-----------------|
| 1033 | 2-Methyl Cyclohexanol (mix) | 2-Methyl-cyclohexanol | 17.1 | 6.5 | 12.5 | 124.1 |
| |  | | | | | |
| 478 | 3-Methyl Cyclohexanone | 3-Methyl- cyclohexanone | 17.7 | 6.3 | 4.7 | 122.5 |
| |  | | | | | |
| 479 | 2-Methyl Cyclohexanone | 2-Methyl- cyclohexanone | 17.6 | 6.3 | 4.7 | 121.3 |
| |  | | | | | |
| 480 | Methyl Ethyl Ether | Methoxy-ethane | 14.7 | 4.9 | 6.2 | 84.1 |
| |  | | | | | |
| 481 | Methyl Ethyl Ketone | Butan-2-one | 16.0 | 9.0 | 5.1 | 90.1 |
| |  | | | | | |
| 482 | Methyl Ethyl Ketoxime | Butan-2-one oxime | 14.7 | 4.9 | 7.8 | 94.8 |
| |  | | | | | |
| 965 | N-Methyl Formamide | N-Methyl-formamide | 17.4 | 18.8 | 15.9 | 59.1 |
| |  | | | | | |
| 483 | Methyl Formate | Formic acid methyl ester | 15.3 | 8.4 | 10.2 | 62.2 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

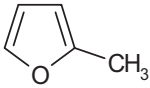
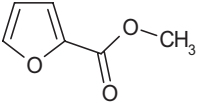
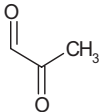
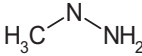
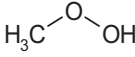
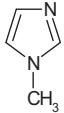

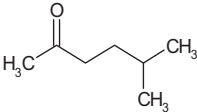
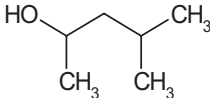
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|-----|---|---|------------|----------|---------------------|-----------------|
| 995 | 2-Methylfuran | 2-Methyl-furan | 17.3 | 2.8 | 7.4 | 89.7 |
| |  | | | | | |
| 998 | Methyl Furoate | Furan-2-carboxylic acid methyl ester | 17.4 | 6.9 | 9.7 | 107.0 |
| |  | | | | | |
| 484 | Methyl Glyoxal | 2-Oxo-propionaldehyde | 15.5 | 16.1 | 9.7 | 68.9 |
| |  | | | | | |
| 485 | Methyl Hydrazine | Methyl-hydrazine | 16.2 | 8.7 | 14.8 | 52.7 |
| |  | | | | | |
| 486 | Methyl Hydroperoxide | Methyl-hydroperoxide | 15.0 | 15.0 | 30.0 | 24.1 |
| |  | | | | | |
| 487 | 1-Methyl Imidazole | 1-Methyl-1H-imidazole | 19.7 | 15.6 | 11.2 | 79.5 |
| |  | | | | | |
| 488 | Methyl Iodide | Iodomethane | 17.5 | 7.7 | 5.3 | 62.3 |
| |  | | | | | |
| 489 | Methyl Isoamyl Ketone | 5-Methyl-hexan-2-one | 16.0 | 5.7 | 4.1 | 142.8 |
| |  | | | | | |
| 490 | Methyl Isobutyl Carbinol | 4-Methyl-pentan-2-ol | 15.4 | 3.3 | 12.3 | 127.2 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

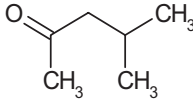
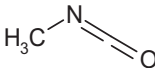
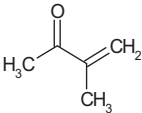
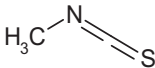
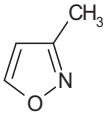
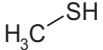
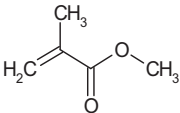
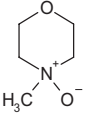
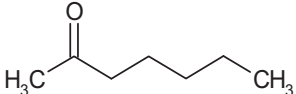
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|---------------------------------------|------------|----------|---------------------|-----------------|
| 491 | Methyl Isobutyl Ketone | 4-Methyl-pentan-2-one | 15.3 | 6.1 | 4.1 | 125.8 |
| |  | | | | | |
| 492 | Methyl Isocyanate | Isocyanatomethane | 15.6 | 7.3 | 2.5 | 61.8 |
| |  | | | | | |
| 493 | Methyl Isopropenyl Ketone | 3-Methyl-but-3-en-2-one | 15.9 | 12.1 | 4.5 | 99.3 |
| |  | | | | | |
| 494 | Methyl Isothiocyanate | Isothiocyanatomethane | 17.3 | 16.2 | 10.1 | 68.4 |
| |  | | | | | |
| 495 | 3-Methyl Isoxazole | 3-Methyl-isoxazole | 19.4 | 14.8 | 11.8 | 57.7 |
| |  | | | | | |
| 496 | Methyl Mercaptan | Methanethiol | 16.6 | 7.7 | 8.6 | 54.1 |
| |  | | | | | |
| 497 | Methyl Methacrylate | 2-Methyl-acrylic acid methyl ester | 15.8 | 6.5 | 5.4 | 106.1 |
| |  | | | | | |
| 1106 | N-Methyl Morpholine-N-Oxide | 4-Methyl-morpholine 4-oxide | 19.0 | 16.1 | 10.2 | 97.6 |
| |  | | | | | |
| 498 | Methyl n-Amyl Ketone | Heptan-2-one | 16.2 | 5.7 | 4.1 | 139.8 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

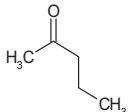
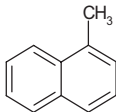
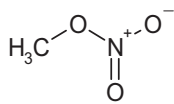
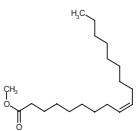
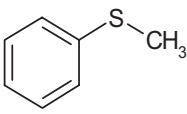
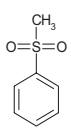
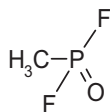
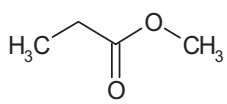
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|---------------------------------------|------------|----------|---------------------|-----------------|
| 499 | Methyl n-Propyl Ketone | Pentan-2-one | 16.0 | 7.6 | 4.7 | 106.7 |
| |  | | | | | |
| 500 | 1-Methyl Naphthalene | 1-Methyl-naphthalene | 20.6 | 0.8 | 4.7 | 138.8 |
| |  | | | | | |
| 501 | Methyl Nitrate | Nitrooxymethane | 15.8 | 14.0 | 4.8 | 63.8 |
| |  | | | | | |
| 502 | Methyl Oleate | (Z)-Octadec-9-enoic acid methyl ester | 14.5 | 3.9 | 3.7 | 340.0 |
| |  | | | | | |
| 879 | Methyl Phenyl Sulfide | Methylsulfanyl-benzene | 19.6 | 4.8 | 4.7 | 117.4 |
| |  | | | | | |
| 1076 | Methyl Phenyl Sulfone | Methanesulfonyl-benzene | 20.0 | 16.9 | 7.8 | 124.6 |
| |  | | | | | |
| 841 | Methyl Phosphonic Difluoride | Methylphosphonic difluoride | 14.0 | 14.0 | 8.4 | 73.9 |
| |  | | | | | |
| 503 | Methyl Propionate | Propionic acid methyl ester | 15.5 | 6.5 | 7.7 | 96.8 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

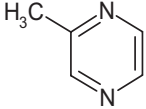
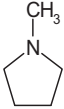
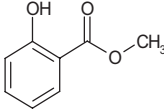
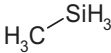
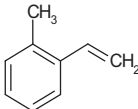
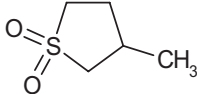
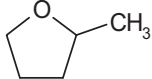
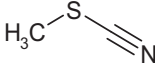
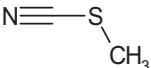
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|-----|---|---|------------|----------|---------------------|-----------------|
| 902 | 2-Methyl Pyrazine | 2-Methyl-pyrazine | 18.3 | 12.3 | 10.5 | 91.4 |
| |  | | | | | |
| 986 | N-Methyl Pyrrolidine | 1-Methyl-pyrrolidine | 17.0 | 2.8 | 6.9 | 104.0 |
| |  | | | | | |
| 504 | Methyl Salicylate | 2-Hydroxy-benzoic acid methyl ester | 18.1 | 8.0 | 13.9 | 129.6 |
| |  | | | | | |
| 740 | Methyl Silane | Methyl-silane | 15.5 | 3.3 | 0 | 71.0 |
| |  | | | | | |
| 886 | alpha-Methyl Styrene | 1-Methyl-2-vinyl- benzene | 18.5 | 2.4 | 2.4 | 130.0 |
| |  | | | | | |
| 506 | Methyl Sulfolane | 3-Methyl-tetrahydro- thiophene 1,1-dioxide | 19.4 | 17.4 | 5.3 | 112.7 |
| |  | | | | | |
| 997 | 2-Methyl Tetrahydrofuran | 2-Methyl-tetrahydro- furan | 16.9 | 5.0 | 4.3 | 100.2 |
| |  | | | | | |
| 507 | Methyl Thiocyanate | Thiocyanatomethane | 17.3 | 15.0 | 6.0 | 68.5 |
| |  | | | | | |
| 968 | Methyl Thiocyanate | Thiocyanatomethane | 17.4 | 15.0 | 8.7 | 68.5 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

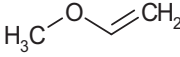
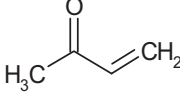
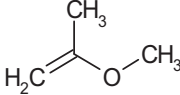
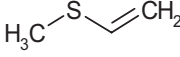
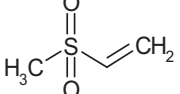
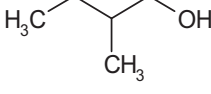
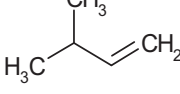
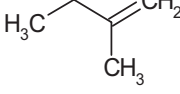
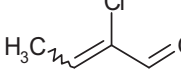
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|-----|---|-----------------------|------------|----------|---------------------|-----------------|
| 508 | Methyl Vinyl Ether  | Methoxy-ethene | 14.9 | 5.3 | 6.3 | 75.2 |
| 509 | Methyl Vinyl Ketone  | But-3-en-2-one | 15.6 | 12.5 | 5.0 | 81.2 |
| 510 | 1-Methyl Vinyl Methyl Ether  | 2-Methoxy-propene | 14.8 | 4.2 | 5.6 | 96.1 |
| 511 | Methyl Vinyl Sulfide  | Methylsulfanyl-ethene | 16.4 | 4.9 | 6.0 | 82.1 |
| 512 | Methyl Vinyl Sulfone  | Methylsulfonyl-ethene | 16.8 | 19.6 | 4.8 | 87.6 |
| 462 | 2-Methyl-1-Butanol  | 2-Methyl-butan-1-ol | 16.0 | 5.1 | 14.3 | 109.5 |
| 513 | 3-Methyl-1-Butene  | 3-Methyl-but-1-ene | 14.0 | 1.4 | 3.8 | 112.9 |
| 514 | 2-Methyl-1-Butene  | 2-Methyl-but-1-ene | 14.2 | 1.8 | 2.3 | 108.7 |
| 515 | 2-Methyl-1-Chloro Acrolein  | 2-Chloro-but-2-enal | 17.1 | 10.6 | 7.3 | 91.7 |

TABLE A.1 (CONTINUED)

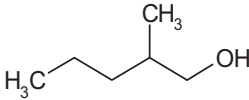
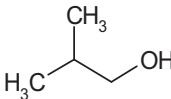
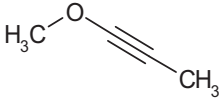
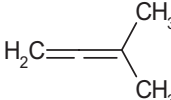
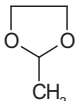
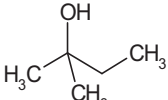
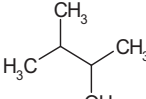
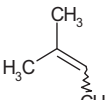
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|-------------------------|------------|----------|---------------------|-----------------|
| 1028 | 2-Methyl-1-Pentanol | 2-Methyl-pentan-1-ol | 15.8 | 4.9 | 13.5 | 124.0 |
| |  | | | | | |
| 516 | 2-Methyl-1-Propanol | 2-Methyl-propan-1-ol | 15.1 | 5.7 | 15.9 | 92.8 |
| |  | | | | | |
| 517 | Methyl-1-Propynyl Ether | 1-Methoxy-propyne | 15.7 | 6.3 | 5.9 | 85.4 |
| |  | | | | | |
| 518 | 3-Methyl-1,2-Butadiene | 3-Methyl-buta-1,2-diene | 15.1 | 2.5 | 4.5 | 99.7 |
| |  | | | | | |
| 519 | 2-Methyl-1,3-Dioxolane | 2-Methyl-[1,3]dioxolane | 17.3 | 4.8 | 5.8 | 89.8 |
| |  | | | | | |
| 732 | 2-Methyl-2-Butanol | 2-Methyl-butan-2-ol | 15.3 | 6.1 | 13.3 | 109.6 |
| |  | | | | | |
| 1029 | 3-Methyl-2-Butanol | 3-Methyl-butan-2-ol | 15.6 | 5.2 | 13.4 | 107.7 |
| |  | | | | | |
| 520 | 2-Methyl-2-Butene | 2-Methyl-but-2-ene | 14.3 | 2.0 | 3.9 | 106.7 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

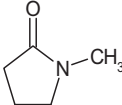
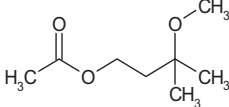
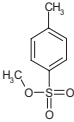
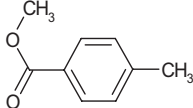
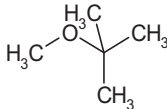
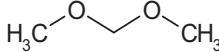
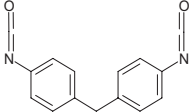
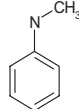
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|--|------------|----------|---------------------|-----------------|
| 521 | N-Methyl-2-Pyrrolidone | 1-Methyl-pyrrolidin-2-one | 18.0 | 12.3 | 7.2 | 96.5 |
| |  | | | | | |
| 1002 | 3-Methyl-3-Methoxy Butyl Acetate | Acetic acid 3-methoxy-3-methyl-butyl ester | 15.3 | 3.8 | 7.7 | 168.6 |
| |  | | | | | |
| 972 | Methyl-4-Toluenesulfonate | Toluene-4-sulfonic acid methyl ester | 19.6 | 15.3 | 3.8 | 152.6 |
| |  | | | | | |
| 796 | Methyl-p-Toluate | 4-Methyl-benzoic acid methyl ester | 19.0 | 6.5 | 3.8 | 140.4 |
| |  | | | | | |
| 522 | Methyl-t-Butyl Ether | 2-Methoxy-2-methyl-propane | 14.8 | 4.3 | 5.0 | 119.8 |
| |  | | | | | |
| 523 | Methylal (Dimethoxymethane) | Dimethoxy-methane | 15.0 | 1.8 | 8.6 | 169.4 |
| |  | | | | | |
| 1217 | 4,4'-Methylenebis(Phenylisocyanate) | 1-Isocyanato-4-(4-isocyanatobenzyl)benzene | 19.5 | 4.1 | 1.7 | 212.1 |
| |  | | | | | |
| 951 | N-Methylaniline | Methyl-phenyl-amine | 19.5 | 6.0 | 11.5 | 108.4 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

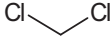

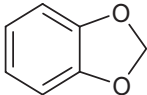
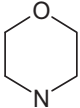

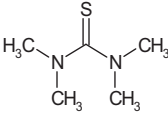
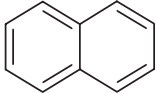
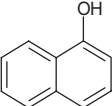
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|--------------------------|------------|----------|---------------------|-----------------|
| 524 | Methylene Dichloride  | Dichloro-methane | 18.2 | 6.3 | 6.1 | 63.9 |
| 525 | Methylene Diiodide  | Diiodo-methane | 17.8 | 3.9 | 5.5 | 80.5 |
| 888 | 1,2-Methylenedioxybenzene  | Benzo[1,3]dioxole | 19.0 | 6.7 | 5.9 | 114.8 |
| 526 | Morpholine  | Morpholine | 18.8 | 4.9 | 9.2 | 87.1 |
| 1193 | Morpholine/Acetic Acid  | Acetate morpholin-4-ium; | 17.2 | 20.3 | 18.4 | |
| 844 | N,N,N,N-Tetramethylthiourea  | Tetramethyl-thiourea | 17.3 | 6.0 | 10.5 | 132.2 |
| 529 | Naphtha.High-Flash | | 17.9 | 0.7 | 1.8 | 181.8 |
| 530 | Naphthalene  | Naphthalene | 19.2 | 2.0 | 5.9 | 111.5 |
| 896 | 1-Naphthol  | Naphthalen-1-ol | 19.7 | 6.3 | 12.3 | 131.7 |

TABLE A.1 (CONTINUED)

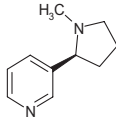
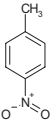
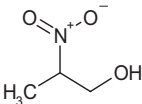
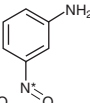
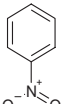
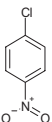
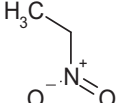
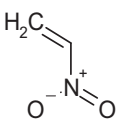
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|---|------------|----------|---------------------|-----------------|
| 1198 | Nicotine | 3-((S)-1-Methyl- pyrrolidin-2-yl)- pyridine | 18.5 | 7.8 | 6.5 | 160.7 |
| |  | | | | | |
| 784 | p-Nitro Toluene | 1-Methyl-4-nitro- benzene | 20.1 | 9.6 | 3.9 | 98.5 |
| |  | | | | | |
| 1092 | 2-Nitro-1-Propanol | 2-Nitro-propan-1-ol | 16.1 | 13.7 | 15.4 | 88.8 |
| |  | | | | | |
| 939 | 3-Nitroaniline | 3-Nitro-phenylamine | 21.2 | 18.7 | 10.3 | 96.1 |
| |  | | | | | |
| 531 | Nitrobenzene | Nitro-benzene | 20.0 | 8.6 | 4.1 | 102.7 |
| |  | | | | | |
| 973 | 4-Nitrochlorobenzene | 1-Chloro-4-nitro- benzene | 20.0 | 8.8 | 3.9 | 121.2 |
| |  | | | | | |
| 532 | Nitroethane | Nitro-ethane | 16.0 | 15.5 | 4.5 | 71.5 |
| |  | | | | | |
| 533 | Nitroethylene | Nitro-ethene | 16.3 | 16.6 | 5.0 | 59.9 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

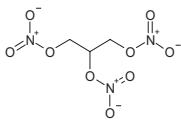
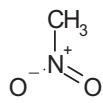
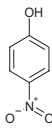
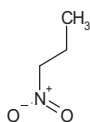
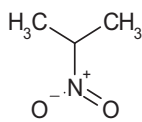
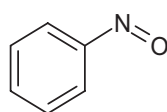
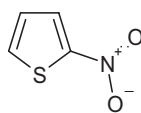
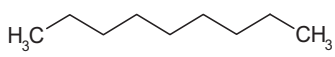
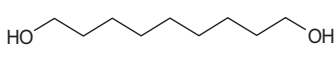
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|---------------------------------|------------|----------|---------------------|-----------------|
| 1112 | Nitroglycerin (Glyceryl Trinitrate) | 1,2,3-Tris-nitrooxy- propane | 16.2 | 17.8 | 5.9 | 142.5 |
| |  | | | | | |
| 534 | Nitromethane | Nitromethane | 15.8 | 18.8 | 5.1 | 54.3 |
| |  | | | | | |
| 936 | 4-Nitrophenol | 4-Nitro-phenol | 20.4 | 20.9 | 15.1 | 93.1 |
| |  | | | | | |
| 535 | 1-Nitropropane | 1-Nitro-propane | 16.6 | 12.3 | 5.5 | 88.4 |
| |  | | | | | |
| 536 | 2-Nitropropane | 2-Nitro-propane | 16.2 | 12.1 | 4.1 | 86.9 |
| |  | | | | | |
| 1073 | Nitrosobenzene | Nitroso-benzene | 20.0 | 12.7 | 4.0 | 89.3 |
| |  | | | | | |
| 984 | 2-Nitrothiophene | 2-Nitro-thiophene | 19.7 | 16.2 | 8.2 | 94.6 |
| |  | | | | | |
| 537 | Nonane | Nonane | 15.7 | 0 | 0 | 179.7 |
| |  | | | | | |
| 1095 | 1,9-Nonanediol | Nonane-1,9-diol | 15.7 | 7.0 | 15.1 | 170.5 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

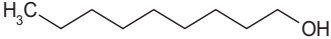

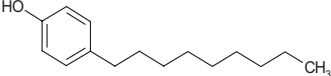
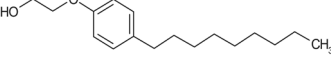
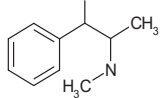

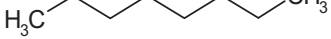
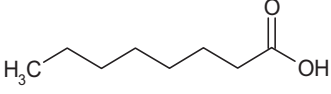
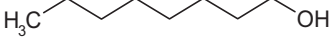
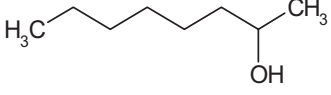
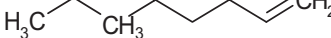
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|--|--|------------|----------|---------------------|-----------------|
| 932 | 1-Nonanol  | Nonan-1-ol | 16.0 | 4.8 | 10.6 | 174.4 |
| 1070 | 1-Nonene  | Non-1-ene | 15.4 | 1.0 | 2.2 | 170.5 |
| 538 | Nonyl Phenol  | 4-Nonyl-phenol | 16.5 | 4.1 | 9.2 | 231.0 |
| 539 | Nonyl Phenoxy Ethanol  | 2-(4-Nonyl-phenoxy)- ethanol | 16.7 | 10.2 | 8.4 | 275.0 |
| 1209 | Norephedrin  | 2-Methylamino-1- phenyl-propan-1-ol | 18.0 | 10.7 | 24.1 | 141.9 |
| 923 | Octadecane  | Octadecane | 16.4 | 0 | 0 | 326.9 |
| 540 | Octane  | Octane | 15.5 | 0 | 0 | 163.5 |
| 541 | Octanoic Acid  | Octanoic acid | 15.1 | 3.3 | 8.2 | 159.0 |
| 542 | 1-Octanol*  | Octan-1-ol | 16.0 | 5.0 | 11.9 | 157.7 |
| 543 | 2-Octanol  | Octan-2-ol | 16.1 | 4.9 | 11.0 | 159.1 |
| 544 | 1-Octene  | Oct-1-ene | 15.3 | 1.0 | 2.4 | 158.0 |

TABLE A.1 (CONTINUED)

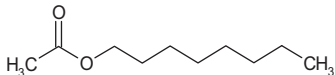
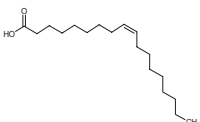
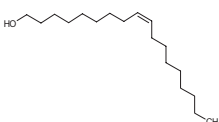
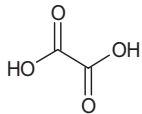
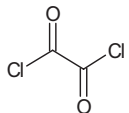

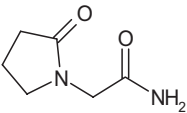
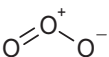
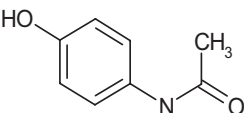
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|-------------------------------------|------------|----------|---------------------|-----------------|
| 1065 | Octyl Acetate | Acetic acid octyl ester | 15.8 | 2.9 | 5.1 | 196.0 |
| |  | | | | | |
| 545 | Oleic Acid* | (Z)-Octadec-9-enoic acid | 16.0 | 2.8 | 6.2 | 317.0 |
| |  | | | | | |
| 546 | Oleyl Alcohol | (Z)-Octadec-9-en-1-ol | 14.3 | 2.6 | 8.0 | 316.0 |
| |  | | | | | |
| 1156 | Oxalic Acid | Oxalic acid | 17.0 | 14.3 | 22.0 | 47.4 |
| |  | | | | | |
| 547 | Oxalylchloride | Oxalyl dichloride | 16.1 | 3.8 | 7.5 | 85.8 |
| |  | | | | | |
| 1026 | Oxetane (Trimethylene Oxide) | Oxetane | 18.0 | 9.1 | 5.4 | 65.0 |
| |  | | | | | |
| 1210 | 2-Oxopyrrolidinacetamid | 2-(2-Oxo-pyrrolidin-1-yl)-acetamide | 17.5 | 15.6 | 11.2 | 116.6 |
| |  | | | | | |
| 1169 | Ozone | | 19.8 | 4.2 | 0 | 24.0 |
| |  | | | | | |
| 1211 | Paracetamol | N-(4-Hydroxy-phenyl)-acetamide | 17.8 | 10.5 | 13.9 | 151.2 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

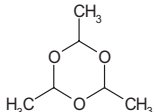
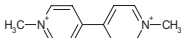
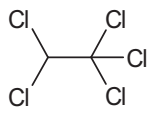
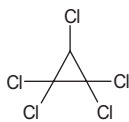
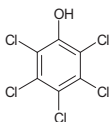
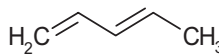
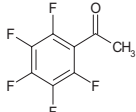
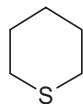
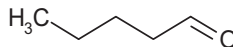
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|--|------------|----------|---------------------|-----------------|
| 978 | Paraldehyde  | 2,4,6-Trimethyl- [1,3,5]trioxane | 16.6 | 7.5 | 7.3 | 132.4 |
| 1114 | Paraquat Cl^- Cl^- | 1,1'-Dimethyl-4,4'- bipyridinium dichloride | 19.5 | 8.8 | 5.9 | 205.7 |
| |  | | | | | |
| 1161 | Pentachloro Ethane  | 1,1,1,2,2-Pentachloro- ethane | 18.2 | 3.2 | 2.4 | 120.9 |
| 818 | Pentachlorocyclopropane  | 1,1,2,2,3-Pentachloro- cyclopropane | 18.5 | 10.5 | 3.7 | 128.5 |
| 788 | Pentachlorophenol  | 2,3,4,5,6-Pentachloro- phenol | 21.5 | 6.9 | 12.8 | 134.7 |
| 548 | 1,3-Pentadiene (Trans)  | (E)-Penta-1,3-diene | 14.7 | 2.5 | 5.0 | 101.7 |
| 821 | Pentafluorobenzophenone  | 1-Pentafluorophenyl- ethanone | 19.3 | 8.1 | 5.4 | 185.5 |
| 549 | Pentamethylene Sulfide  | Tetrahydro-thiopyran | 18.5 | 6.3 | 8.9 | 103.6 |
| 1061 | Pentanal (Valeraldehyde)  | Pentanal | 15.7 | 9.4 | 5.8 | 106.4 |

TABLE A.1 (CONTINUED)


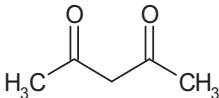
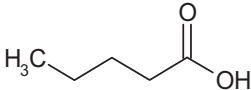
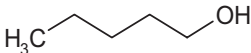
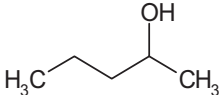
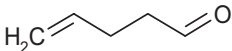

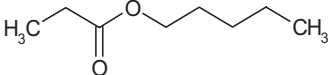
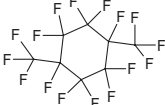
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|--|--|------------|----------|---------------------|-----------------|
| 550 | Pentane  | Pentane | 14.5 | 0 | 0 | 116.2 |
| 551 | 2,4-Pentanedione  | Pentane-2,4-dione | 17.1 | 9.0 | 4.1 | 103.1 |
| 1023 | Pentanoic Acid  | Pentanoic acid | 15.0 | 4.1 | 10.3 | 109.2 |
| 552 | 1-Pentanol*  | Pentan-1-ol | 15.9 | 5.9 | 13.9 | 108.6 |
| 733 | 2-Pentanol  | Pentan-2-ol | 15.6 | 6.4 | 13.3 | 109.6 |
| 553 | 4-Pentenal  | Pent-4-enal | 15.5 | 8.1 | 6.8 | 98.7 |
| 554 | 1-Pentene  | Pent-1-ene | 13.9 | 1.4 | 3.8 | 110.4 |
| 1005 | n-Pentyl Propionate  | Propionic acid pentyl ester | 15.8 | 5.2 | 5.7 | 165.3 |
| 556 | Perfluoro Dimethylcyclohexane  | 1,1,2,2,3,4,4,5,5,6- Decafluoro-3,6-bis- trifluoromethyl- cyclohexane | 12.4 | 0 | 0 | 217.4 |

TABLE A.1 (CONTINUED)

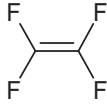

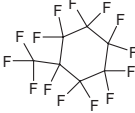
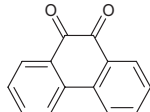
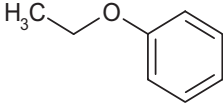
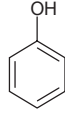
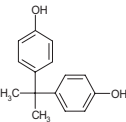
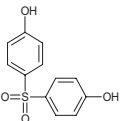
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|--|------------|----------|---------------------|-----------------|
| 555 | Perfluoro Ethylene (Tetrafluoro Ethylene) | 1,1,2,2-Tetrafluoro-ethene | 15.1 | 0 | 0 | 65.8 |
| |  | | | | | |
| 557 | Perfluoroheptane | 1,1,1,2,2,3,3,3,4,4,5,5,6,6,7,7,7-Hexadecafluoro-heptane | 12.0 | 0 | 0 | 227.3 |
| |  | | | | | |
| 558 | Perfluoromethylcyclohexane | 1,1,2,2,3,3,3,4,4,5,5,6-Undecafluoro-6-trifluoromethyl-cyclohexane | 12.4 | 0 | 0 | 196.0 |
| |  | | | | | |
| 975 | 9,10-Phenanthrenequinone | Phenanthrene-9,10-dione | 20.3 | 17.1 | 4.8 | 148.2 |
| |  | | | | | |
| 880 | Phenetole (Ethyl Phenyl Ether) | Ethoxy-benzene | 18.4 | 4.5 | 4.0 | 127.3 |
| |  | | | | | |
| 559 | Phenol | Phenol | 18.0 | 5.9 | 14.9 | 87.5 |
| |  | | | | | |
| 1100 | Bisphenol A | 4-[1-(4-Hydroxyphenyl)-1-methylethyl]phenol | 19.2 | 5.9 | 13.8 | 207.5 |
| |  | | | | | |
| 1155 | Bisphenol-S | 4-[4-(4-Hydroxyphenyl)sulfonyl]phenol | 20.0 | 14.6 | 16.3 | 183.2 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

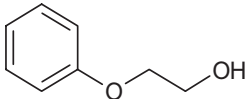
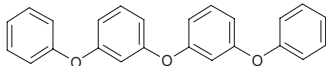
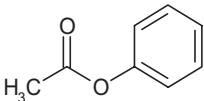
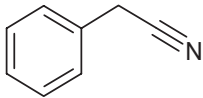
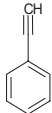
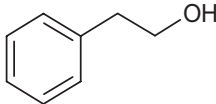
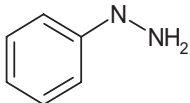
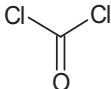
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|---|------------|----------|---------------------|-----------------|
| 560 | 2-Phenoxy Ethanol | 2-Phenoxy-ethanol | 17.8 | 5.7 | 14.3 | 124.7 |
| |  | | | | | |
| 561 | Bis-(m-Phenoxyphenyl) Ether | 1-Phenoxy-3-(3- phenoxyphenoxy)benz ene | 19.6 | 3.1 | 5.1 | 373.0 |
| |  | | | | | |
| 881 | Phenyl Acetate | Acetic acid phenyl ester | 19.8 | 5.2 | 6.4 | 126.9 |
| |  | | | | | |
| 851 | Phenyl Acetonitrile | Phenyl-acetonitrile | 19.5 | 12.3 | 3.8 | 114.9 |
| |  | | | | | |
| 1168 | Phenyl Acetylene | Ethynyl-benzene | 18.8 | 2.8 | 4.0 | 109.1 |
| |  | | | | | |
| 1074 | 2-Phenyl Ethanol | 2-Phenyl-ethanol | 19.0 | 5.8 | 12.8 | 120.0 |
| |  | | | | | |
| 1047 | Phenylhydrazine | Phenyl-hydrazine | 20.4 | 6.5 | 14.0 | 98.5 |
| |  | | | | | |
| 562 | Phosgene | Carbonyl dichloride | 16.4 | 5.3 | 5.3 | 71.7 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

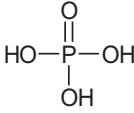

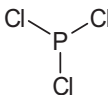

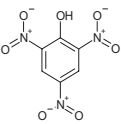
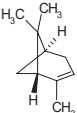
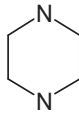
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|---|------------|----------|---------------------|-----------------|
| 1216 | Phosphoric Acid | Phosphoric acid | 14.7 | 18.6 | 26.8 | 52.8 |
| |  | | | | | |
| 1171 | Phosphorous Oxychloride (Phosphoryl Trichloride) | Phosphoric trichloride | 18.1 | 9.3 | 0 | 93.2 |
| |  | | | | | |
| 563 | Phosphorus Trichloride | Phosphorous trichloride | 18.4 | 3.6 | 0 | 87.3 |
| |  | | | | | |
| 564 | Phthalic Anhydride | Isobenzofuran-1,3-dione | 20.6 | 20.1 | 10.1 | 96.8 |
| |  | | | | | |
| 1089 | Picric Acid (2,4,6-Trinitrophenol) | Picric acid | 19.2 | 7.0 | 6.0 | 130.0 |
| |  | | | | | |
| 565 | Pine Oil | | 15.6 | 3.0 | 9.8 | 155.0 |
| 900 | 2-Pinene (dl) | (1S,5S)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene | 16.9 | 1.8 | 3.1 | 159.5 |
| |  | | | | | |
| 1052 | Piperazine | Piperazine | 18.1 | 5.6 | 8.0 | 97.9 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

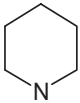
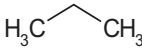
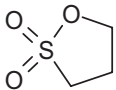
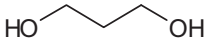
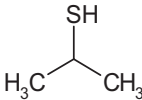
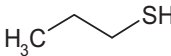
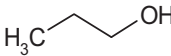
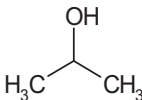
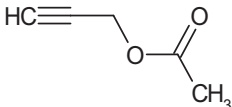
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|-------------------------------|------------|----------|---------------------|-----------------|
| 1050 | Piperidine  | Piperidine | 17.6 | 4.5 | 8.9 | 98.9 |
| 566 | 1,2-Propadiene (Allene) $\text{H}_2\text{C}=\text{C}=\text{CH}_2$ | Propa-1,2-diene | 15.3 | 3.0 | 6.8 | 60.1 |
| 1064 | Propane  | Propane | 13.4 | 0 | 0 | 89.5 |
| 943 | 1,3-Propane Sultone  | [1,2]Oxathiolane 2,2-dioxide | 18.4 | 16.0 | 9.0 | 87.7 |
| 1038 | 1,3-Propanediol (Trimethyleneglycol)  | Propane-1,3-diol | 16.8 | 13.5 | 23.2 | 72.5 |
| 567 | 2-Propanethiol  | Propane-2-thiol | 16.3 | 6.8 | 6.5 | 94.1 |
| 568 | 1-Propanethiol  | Propane-1-thiol | 16.1 | 5.8 | 5.7 | 90.5 |
| 569 | 1-Propanol  | Propan-1-ol | 16.0 | 6.8 | 17.4 | 75.2 |
| 570 | 2-Propanol  | Propan-2-ol | 15.8 | 6.1 | 16.4 | 76.8 |
| 1036 | Propargyl Acetate  | Acetic acid prop-2-ynyl ester | 16.3 | 5.2 | 8.3 | 98.8 |

TABLE A.1 (CONTINUED)

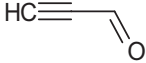
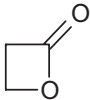
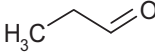
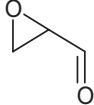
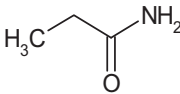
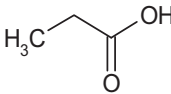
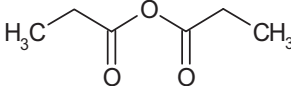
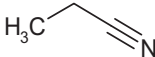
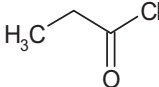
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|------------------------|------------|----------|---------------------|-----------------|
| 571 | Propargylaldehyde  | Propynal | 16.2 | 11.9 | 8.7 | 60.0 |
| 572 | beta-Propiolactone  | Oxetan-2-one | 19.7 | 18.2 | 10.3 | 65.5 |
| 1062 | Propionaldehyde*  | Propionaldehyde | 15.3 | 11.1 | 6.9 | 73.4 |
| 574 | Propionaldehyde-2,3-Epoxy*  | Oxirane-2-carbaldehyde | 17.5 | 13.4 | 9.8 | 63.2 |
| 575 | Propionamide  | Propionamide | 16.7 | 9.8 | 11.5 | 78.9 |
| 576 | Propionic Acid  | Propionic acid | 14.7 | 5.3 | 12.4 | 75.0 |
| 1043 | Propionic Anhydride  | Propanoic anhydride | 16.2 | 10.0 | 8.7 | 129.4 |
| 577 | Propionitrile  | Propionitrile | 15.3 | 14.3 | 5.5 | 70.9 |
| 578 | Propionylchloride  | Propionyl chloride | 16.1 | 10.3 | 5.3 | 86.9 |

TABLE A.1 (CONTINUED)

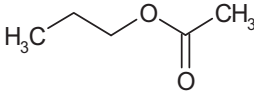
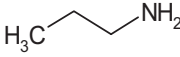
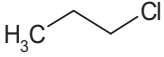
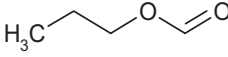
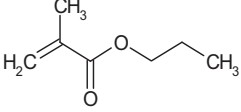
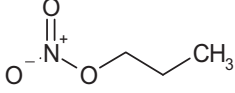
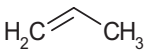
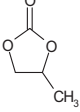
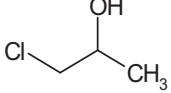
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|-----|---|---------------------------------------|------------|----------|---------------------|-----------------|
| 579 | n-Propyl Acetate  | Acetic acid propyl ester | 15.3 | 4.3 | 7.6 | 115.3 |
| 580 | Propyl Amine  | Propylamine | 16.9 | 4.9 | 8.6 | 83.0 |
| 581 | Propyl Chloride  | 1-Chloro-propane | 16.0 | 7.8 | 2.0 | 88.1 |
| 926 | Propyl Formate  | Formic acid propyl ester | 15.5 | 7.1 | 8.6 | 97.9 |
| 582 | Propyl Methacrylate  | 2-Methyl-acrylic acid propyl ester | 15.5 | 6.3 | 6.6 | 158.8 |
| 935 | n-Propyl Nitrate  | 1-Nitrooxy-propane | 15.8 | 11.3 | 4.1 | 99.7 |
| 583 | Propylene  | Propene | 15.1 | 1.6 | 1.5 | 68.8 |
| 584 | Propylene Carbonate  | 4-Methyl-[1,3]dioxolan- 2-one | 20.0 | 18.0 | 4.1 | 85.0 |
| 746 | Propylene Chlorohydrin  | 1-Chloro-propan-2-ol | 16.8 | 9.8 | 15.3 | 85.4 |

TABLE A.1 (CONTINUED)

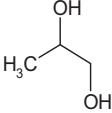
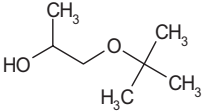
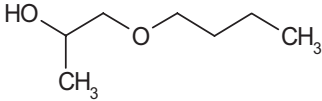
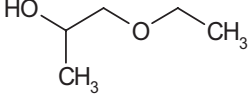
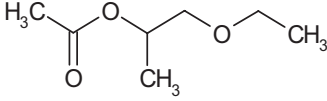
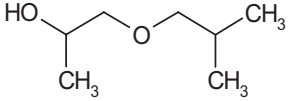
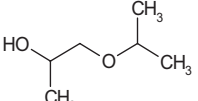
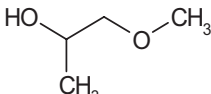
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|-----|---|---|------------|----------|---------------------|-----------------|
| 585 | Propylene Glycol | Propane-1,2-diol | 16.8 | 9.4 | 23.3 | 73.6 |
| |  | | | | | |
| 586 | Propylene Glycol Mono-t-Butyl Ether | 1-tert-Butoxy-propan-2-ol | 15.3 | 6.1 | 10.8 | 151.6 |
| |  | | | | | |
| 587 | Propylene Glycol Monobutyl Ether | 1-Butoxy-propan-2-ol | 15.3 | 4.5 | 9.2 | 132.0 |
| |  | | | | | |
| 588 | Propylene Glycol Monoethyl Ether | 1-Ethoxy-propan-2-ol | 15.7 | 6.5 | 10.5 | 115.6 |
| |  | | | | | |
| 589 | Propylene Glycol Monoethyl Ether Acetate | Acetic acid 2-ethoxy-1-methyl-ethyl ester | 15.6 | 4.3 | 9.0 | 155.1 |
| |  | | | | | |
| 590 | Propylene Glycol Monoisobutyl Ether | 1-Isobutoxy-propan-2-ol | 15.1 | 4.7 | 9.8 | 132.2 |
| |  | | | | | |
| 857 | Propylene Glycol Monoisopropyl Ether | 1-Isopropoxy-propan-2-ol | 15.5 | 6.1 | 11.0 | 134.6 |
| |  | | | | | |
| 591 | Propylene Glycol Monomethyl Ether | 1-Methoxy-propan-2-ol | 15.6 | 6.3 | 11.6 | 93.8 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

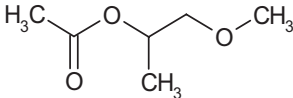
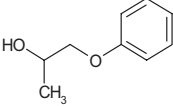
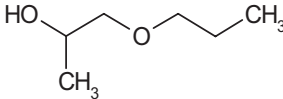
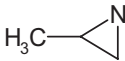
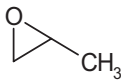
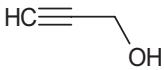
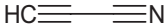
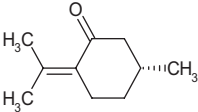

| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|---|------------|----------|---------------------|-----------------|
| 592 | Propylene Glycol Monomethyl Ether Acetate | Acetic acid 2-methoxy- 1-methyl-ethyl ester | 15.6 | 5.6 | 9.8 | 137.1 |
| |  | | | | | |
| 593 | Propylene Glycol Monophenyl Ether | 1-Phenoxy-propan-2-ol | 17.4 | 5.3 | 11.5 | 143.2 |
| |  | | | | | |
| 594 | Propylene Glycol Monopropyl Ether | 1-Propoxy-propan-2-ol | 15.8 | 7.0 | 9.2 | 130.3 |
| |  | | | | | |
| 1086 | Propylene Imine (2-Methyl Aziridine) | 2-Methyl-aziridine | 18.1 | 8.4 | 6.5 | 71.2 |
| |  | | | | | |
| 595 | Propylene Oxide | 2-Methyl-oxirane | 15.2 | 8.6 | 6.7 | 67.6 |
| |  | | | | | |
| 1091 | 2-Propyn-1-ol | Prop-2-yn-1-ol | 16.1 | 8.8 | 19.1 | 57.7 |
| |  | | | | | |
| 596 | Propynonitrile | Propynenitrile | 15.5 | 17.0 | 6.3 | 62.5 |
| |  | | | | | |
| 1133 | Pulegone | (R)-2-Isopropylidene-5- methyl-cyclohexanone | 17.5 | 8.9 | 5.5 | 162.9 |
| |  | | | | | |
| 985 | Pyrazole | 1H-Pyrazole | 20.2 | 10.4 | 12.4 | 68.1 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

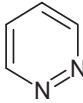
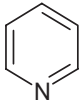
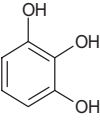


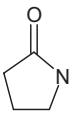
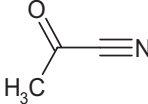
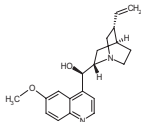
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|--|------------|----------|---------------------|-----------------|
| 597 | Pyridazine | Pyridazine | 20.2 | 17.4 | 11.7 | 72.6 |
| |  | | | | | |
| 598 | Pyridine | Pyridine | 19.0 | 8.8 | 5.9 | 80.9 |
| |  | | | | | |
| 901 | Pyrogallol (1,2,3-Trihydroxybenzene) | Benzene-1,2,3-triol | 20.7 | 10.7 | 21.1 | 87.0 |
| |  | | | | | |
| 600 | Pyrrole | 1H-Pyrrole | 19.2 | 7.4 | 6.7 | 69.2 |
| |  | | | | | |
| 1051 | Pyrrolidine | Pyrrolidine | 17.9 | 6.5 | 7.4 | 83.5 |
| |  | | | | | |
| 599 | 2-Pyrrolidone | Pyrrolidin-2-one | 19.4 | 17.4 | 11.3 | 76.4 |
| |  | | | | | |
| 601 | Pyruvonnitrile | 2-Oxo-propionitrile | 15.9 | 18.9 | 8.0 | 70.9 |
| |  | | | | | |
| 1202 | Quinine | (R)-(6-Methoxy-quinolin-4-yl)- ((2S,4S,5R)-5-vinyl-1- aza-bicyclo[2.2.2]oct- 2-yl)-methanol | 19.0 | 6.6 | 11.0 | 310.7 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

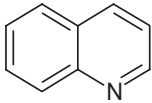
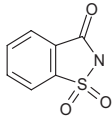
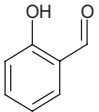
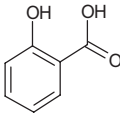
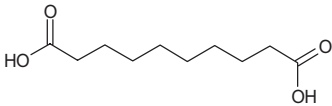
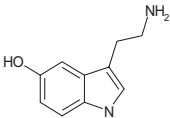
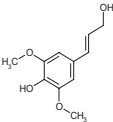
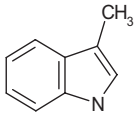
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|---|------------|----------|---------------------|-----------------|
| 602 | Quinoline | Quinoline | 19.8 | 5.6 | 5.7 | 118.0 |
| |  | | | | | |
| 1196 | Saccharin | 1,1-Dioxo-1,2-dihydro- 1lambda*6*- benzo[d]isothiazol-3- one | 21.0 | 13.9 | 8.8 | 206.8 |
| |  | | | | | |
| 704 | Salicylaldehyde | 2-Hydroxy- benzaldehyde | 19.4 | 10.7 | 14.7 | 104.6 |
| |  | | | | | |
| 1204 | Salicylic Acid | 2-Hydroxy-benzoic acid | 19.4 | 10.1 | 17.4 | 95.7 |
| |  | | | | | |
| 1225 | Sebacic Acid | Decanedioic acid | 17.1 | 7.1 | 11.7 | 167.6 |
| |  | | | | | |
| 1178 | Serotonin | 3-(2-Amino-ethyl)-1H- indol-5-ol | 18.0 | 8.2 | 14.4 | 144.4 |
| |  | | | | | |
| 1101 | Sinapyl Alcohol | 4-((E)-3-Hydroxy- propenyl)-2,6- dimethoxy-phenol | 19.2 | 7.3 | 16.1 | 194.6 |
| |  | | | | | |
| 832 | Skatole | 3-Methyl-1H-indole | 20.0 | 7.1 | 6.2 | 122.6 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

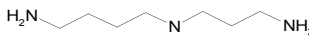
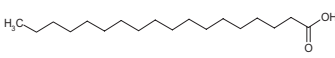
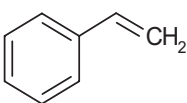
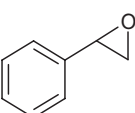
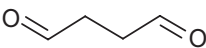
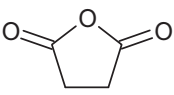
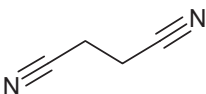
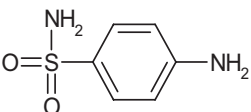
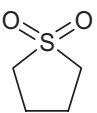
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|--|------------|----------|---------------------|-----------------|
| 1207 | Spermidin  | N*1*-(3-Amino- propyl)-butane-1,4- diamine | 16.7 | 11.2 | 12.0 | 155.6 |
| 603 | Stearic Acid  | Octadecanoic acid | 16.3 | 3.3 | 5.5 | 326.0 |
| 604 | Styrene  | Vinyl-benzene | 18.6 | 1.0 | 4.1 | 115.6 |
| 1014 | Styrene Oxide (Phenyl Oxirane)  | 2-Phenyl-oxirane | 19.4 | 5.8 | 6.6 | 114.2 |
| 605 | Succinaldehyde (Butanedial)  | Succinaldehyde | 16.8 | 9.8 | 10.5 | 81.2 |
| 606 | Succinic Anhydride  | Dihydro-furan-2,5-dione | 18.6 | 19.2 | 16.6 | 66.8 |
| 607 | Succinonitrile  | Succinonitrile | 17.9 | 16.2 | 7.9 | 81.2 |
| 1077 | Sulfanilamide  | 4-Amino- benzenesulfonamide | 20.0 | 19.5 | 10.7 | 159.5 |
| 608 | Sulfolane  | Tetrahydro-thiophene 1,1-dioxide | 20.3 | 18.2 | 10.9 | 95.7 |

TABLE A.1 (CONTINUED)

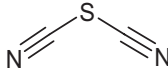

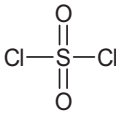
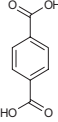
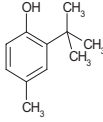
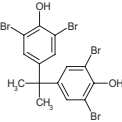
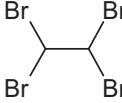
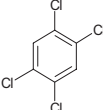
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|---|------------|----------|---------------------|-----------------|
| 609 | Sulfur Dicyanide | Cyanic thiocyanate | 18.1 | 13.5 | 0 | 60.0 |
| |  | | | | | |
| 610 | Sulfur Dioxide | Oxosulfane oxide | 15.8 | 8.4 | 10.0 | 44.0 |
| |  | | | | | |
| 1098 | Sulfuryl Chloride | Sulfuryl dichloride | 17.6 | 7.2 | 0 | 81.0 |
| |  | | | | | |
| 897 | Terephthalic Acid | Terephthalic acid | 18.8 | 6.1 | 10.7 | 166.0 |
| |  | | | | | |
| 1079 | 2-tert-Butyl-4-Methyl Phenol | 2-tert-Butyl-4-methyl-phenol | 17.3 | 3.7 | 10.5 | 177.6 |
| |  | | | | | |
| 1127 | Tetrabromo Bisphenol A | 2,6-Dibromo-4-[1-(3,5-dibromo-4-hydroxyphenyl)-1-methylethyl]phenol | 20.2 | 9.1 | 13.8 | 249.5 |
| |  | | | | | |
| 612 | 1,1,2,2-Tetrabromoethane | 1,1,2,2-Tetrabromoethane | 22.6 | 5.1 | 8.2 | 116.8 |
| |  | | | | | |
| 708 | 1,2,4,5-Tetrachlorobenzene | 1,2,4,5-Tetrachlorobenzene | 21.2 | 10.7 | 3.4 | 116.2 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

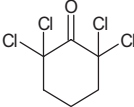
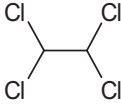
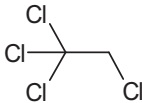
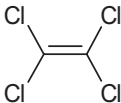
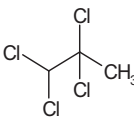
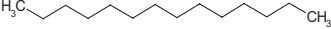
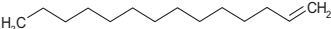
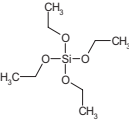

| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|---------------------------------------|------------|----------|---------------------|-----------------|
| 783 | 2,2,6,6-Tetrachlorocyclohexanone | 2,2,6,6-Tetrachloro- cyclohexanone | 19.5 | 14.0 | 6.3 | 138.8 |
| |  | | | | | |
| 614 | 1,1,2,2-Tetrachloroethane | 1,1,2,2-Tetrachloro- ethane | 18.8 | 5.1 | 5.3 | 105.2 |
| |  | | | | | |
| 882 | 1,1,1,2-Tetrachloroethane | 1,1,1,2-Tetrachloro- ethane | 18.0 | 4.4 | 4.2 | 105.0 |
| |  | | | | | |
| 615 | Tetrachloroethylene | 1,1,2,2-Tetrachloro- ethene | 18.3 | 5.7 | 0 | 101.2 |
| |  | | | | | |
| 613 | 1,1,2,2-Tetrachloropropane | 1,1,2,2-Tetrachloro- propane | 17.9 | 6.7 | 3.3 | 123.7 |
| |  | | | | | |
| 922 | n-Tetradecane | Tetradecane | 16.2 | 0 | 0 | 261.3 |
| |  | | | | | |
| 1011 | 1-Tetradecene | Tetradec-1-ene | 16.1 | 0.5 | 1.9 | 253.4 |
| |  | | | | | |
| 616 | Tetraethylorthosilicate | | 13.9 | 4.3 | 0.6 | 224.0 |
| |  | | | | | |
| 617 | Tetrahydrofuran | Tetrahydro-furan | 16.8 | 5.7 | 8.0 | 81.7 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

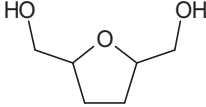
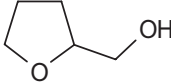
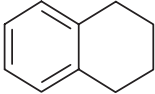
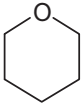
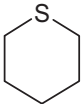
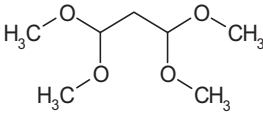
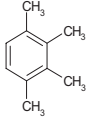
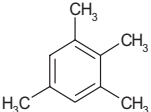
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|--|------------|----------|---------------------|-----------------|
| 999 | 2,5-Tetrahydrofuran Dimethanol | (5-Hydroxymethyl- tetrahydro-furan-2-yl)- methanol | 17.9 | 8.5 | 18.9 | 114.5 |
| |  | | | | | |
| 1096 | Tetrahydrofurfuryl Alcohol | (Tetrahydro-furan-2-yl)- methanol | 17.8 | 8.2 | 10.2 | 97.0 |
| |  | | | | | |
| 618 | Tetrahydronaphthalene | 1,2,3,4-Tetrahydro- naphthalene | 19.6 | 2.0 | 2.9 | 136.0 |
| |  | | | | | |
| 619 | Tetrahydropyran | Tetrahydro-pyran | 16.4 | 6.3 | 6.0 | 97.8 |
| |  | | | | | |
| 620 | Tetrahydrothiopyran | Tetrahydro-thiopyran | 18.5 | 6.3 | 8.9 | 103.6 |
| |  | | | | | |
| 895 | 1,1,3,3-Tetramethoxypropane | 1,1,3,3-Tetramethoxy- propane | 15.0 | 7.1 | 6.8 | 164.7 |
| |  | | | | | |
| 884 | 1,2,3,4-Tetramethylbenzene | 1,2,3,4-Tetramethyl- benzene | 18.8 | 0.5 | 0.5 | 148.3 |
| |  | | | | | |
| 885 | 1,2,3,5-Tetramethylbenzene | 1,2,3,5-Tetramethyl- benzene | 18.6 | 0.5 | 0.5 | 150.8 |
| |  | | | | | |

TABLE A.1 (CONTINUED)


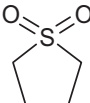
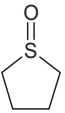
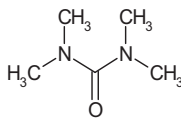
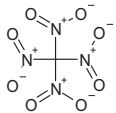
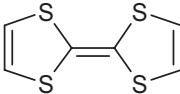
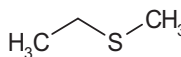


| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|-----|---|-------------------------------------|------------|----------|---------------------|-----------------|
| 622 | Tetramethylene Sulfide | Tetrahydro-thiophene | 18.6 | 6.7 | 9.1 | 88.3 |
| |  | | | | | |
| 790 | Tetramethylene Sulfone (Sulfolane) | Tetrahydro-thiophene 1,1-dioxide | 20.3 | 18.2 | 10.9 | 95.7 |
| |  | | | | | |
| 623 | Tetramethylene Sulfoxide | Tetrahydro-thiophene 1- oxide | 18.2 | 11.0 | 9.1 | 90.0 |
| |  | | | | | |
| 624 | Tetramethylurea | Tetramethyl-urea | 16.7 | 8.2 | 11.0 | 120.4 |
| |  | | | | | |
| 933 | Tetranitromethane | Tetranitro-methane | 15.5 | 9.9 | 7.5 | 119.7 |
| |  | | | | | |
| 890 | 2,2',5,5'-Tetrathiafulvalene | [2,2']Bi[[1,3]dithiolyli- dene] | 21.0 | 8.2 | 8.4 | 204.0 |
| |  | | | | | |
| 625 | 2-Thiabutane | Methylsulfanyl-ethane | 16.2 | 5.9 | 5.3 | 90.4 |
| |  | | | | | |
| 626 | Thiacyclopropane | Thiirane | 19.3 | 9.1 | 5.0 | 58.0 |
| |  | | | | | |
| 627 | Thiazole* | Thiazole | 20.5 | 18.8 | 10.8 | 70.9 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

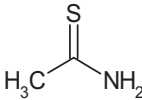
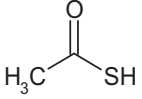
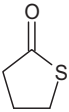
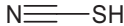
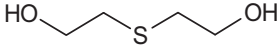
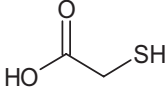
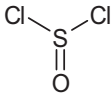


| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|-------------------------------------|------------|----------|---------------------|-----------------|
| 628 | Thioacetamide | Thioacetamide | 17.5 | 20.6 | 20.2 | 75.0 |
| |  | | | | | |
| 629 | Thioacetic Acid | Thioacetic acid | 17.0 | 6.7 | 8.9 | 71.5 |
| |  | | | | | |
| 630 | Gamma-Thiobutyrolactone | Dihydro-thiophen-2-one | 19.0 | 6.9 | 6.2 | 86.6 |
| |  | | | | | |
| 631 | Thiocyanic Acid | Thiocyanic acid | 16.8 | 8.9 | 10.9 | 51.7 |
| |  | | | | | |
| 1034 | Thiodiethylglycol | 2-(2-Hydroxy-ethylsulfanyl)-ethanol | 17.3 | 8.8 | 19.8 | 103.6 |
| |  | | | | | |
| 1017 | Thioglycolic Acid (Mercapto Acetic Acid) | Mercapto-acetic acid | 16.0 | 8.6 | 14.8 | 69.5 |
| |  | | | | | |
| 632 | Thionyl Chloride | Thionyl dichloride | 16.9 | 6.2 | 5.9 | 79.0 |
| |  | | | | | |
| 633 | Thiophene | Thiophene | 18.9 | 2.4 | 7.8 | 79.0 |
| |  | | | | | |
| 703 | Thiophenol | Benzenethiol | 20.0 | 4.5 | 10.3 | 102.4 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

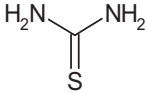
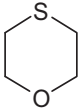
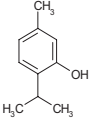
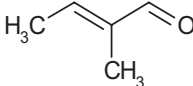
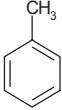
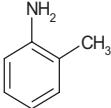
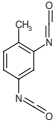
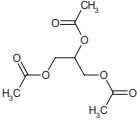
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|--|---|------------|----------|---------------------|-----------------|
| 634 | Thiourea  | Thiourea | 20.0 | 21.7 | 14.8 | 72.8 |
| 635 | 1,4-Thioxane  | [1,4]Oxathiane | 19.0 | 6.6 | 7.7 | 93.5 |
| 1203 | Thymol  | 2-Isopropyl-5-methyl-phenol | 19.0 | 4.5 | 10.8 | 166.9 |
| 636 | Tigaldehyde  | (E)-2-Methyl-but-2-enal | 16.2 | 12.9 | 6.8 | 96.6 |
| 637 | Toluene  | Toluene | 18.0 | 1.4 | 2.0 | 106.8 |
| 953 | 2-Toluidine  | o-Tolylamine | 19.4 | 5.8 | 9.4 | 107.8 |
| 638 | Tolylene Diisocyanate  | 2,4-Diisocyanato-1-methyl-benzene | 19.3 | 7.9 | 6.1 | 143.5 |
| 1147 | Triacetin (1,2,3-Propanetriol Triacetate)  | Acetic acid 2-acetoxy-1-acetoxymethyl-ethyl ester | 16.5 | 4.5 | 9.1 | 188.2 |

TABLE A.1 (CONTINUED)

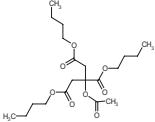
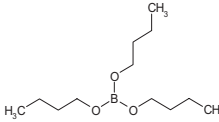
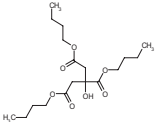
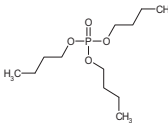
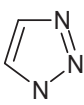
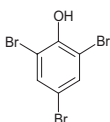
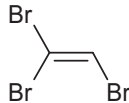
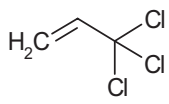
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|--|------------|----------|---------------------|-----------------|
| 1137 | Tri-n-Butyl Acetyl Citrate  | 3-Acetoxy-3-butoxycarbonyl-pentanedioic acid dibutyl ester | 16.7 | 2.5 | 7.4 | 384.3 |
| 1020 | Tri-n-Butyl Borate  | Tri-n-butyl borate | 16.7 | 1.8 | 4.6 | 269.7 |
| 1220 | Tri-n-Butyl Citrate  | 3-Butoxycarbonyl-3-hydroxy-pentanedioic acid dibutyl ester | 16.6 | 3.8 | 10.1 | 345.5 |
| 641 | Tri Butyl Phosphate*  | Phosphoric acid tributyl ester | 16.3 | 6.3 | 4.3 | 274.0 |
| 639 | 1,2,3-Triazole  | 1H-[1,2,3]Triazole | 20.7 | 8.8 | 15.0 | 58.2 |
| 1118 | 2,4,6-Tribromo Phenol  | 2,4,6-Tribromo-phenol | 20.6 | 10.2 | 14.1 | 129.7 |
| 640 | Tribromo Ethylene*  | 1,1,2-Tribromo-ethene | 18.3 | 9.4 | 8.0 | 97.8 |
| 642 | 3,3,3-Trichloro Propene  | 3,3,3-Trichloro-propene | 17.7 | 15.5 | 3.4 | 106.2 |

TABLE A.1 (CONTINUED)

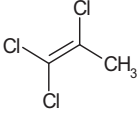
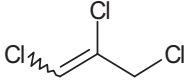
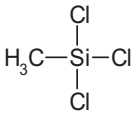
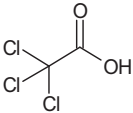
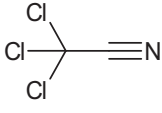
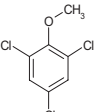
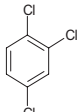
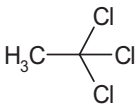
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|-----------------------------------|------------|----------|---------------------|-----------------|
| 643 | 1,1,2-Trichloro Propene | 1,1,2-Trichloro-propene | 17.7 | 15.7 | 3.4 | 104.8 |
| |  | | | | | |
| 644 | 1,2,3-Trichloro Propene | 1,2,3-Trichloro-propene | 17.8 | 15.7 | 3.4 | 105.0 |
| |  | | | | | |
| 981 | Trichloro-Methyl-Silane | Trichloro-methyl-silane | 16.5 | 6.6 | 3.5 | 117.4 |
| |  | | | | | |
| 861 | Trichloroacetic Acid | Trichloro-acetic acid | 18.3 | 5.8 | 11.4 | 100.2 |
| |  | | | | | |
| 645 | Trichloroacetonitrile | Trichloro-acetonitrile | 16.4 | 7.4 | 6.1 | 100.0 |
| |  | | | | | |
| 1115 | 2,4,6-Trichloroanisole | 1,3,5-Trichloro-2-methoxy-benzene | 21.0 | 3.9 | 7.0 | 129.0 |
| |  | | | | | |
| 701 | 1,2,4-Trichlorobenzene* | 1,2,4-Trichloro-benzene | 20.2 | 6.0 | 3.2 | 125.5 |
| |  | | | | | |
| 647 | 1,1,1-Trichloroethane | 1,1,1-Trichloro-ethane | 16.8 | 4.3 | 2.0 | 99.3 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

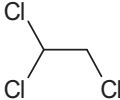
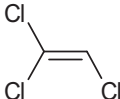
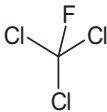
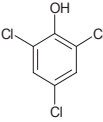
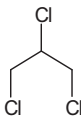
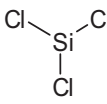
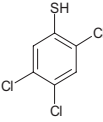
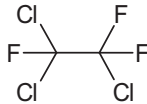
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|--|------------|----------|---------------------|-----------------|
| 648 | 1,1,2-Trichloroethane | 1,1,2-Trichloro-ethane | 18.2 | 5.3 | 6.8 | 92.9 |
| |  | | | | | |
| 649 | Trichloroethylene | 1,1,2-Trichloro-ethene | 18.0 | 3.1 | 5.3 | 90.2 |
| |  | | | | | |
| 650 | Trichlorofluoromethane (Freon 11) | Trichloro-fluoro- methane | 15.3 | 2.0 | 0 | 92.8 |
| |  | | | | | |
| 702 | 2,4,6-Trichlorophenol | 2,4,6-Trichloro-phenol | 20.3 | 5.1 | 10.8 | 132.5 |
| |  | | | | | |
| 883 | 1,2,3-Trichloropropane | 1,2,3-Trichloro-propane | 17.8 | 12.3 | 3.4 | 106.1 |
| |  | | | | | |
| 1174 | Trichlorosilane | | 14.2 | 3.6 | 3.8 | 101.1 |
| |  | | | | | |
| 651 | 2,4,5-Trichlorothiophenol | 2,4,5-Trichloro- benzenethiol | 21.0 | 4.5 | 9.1 | 145.0 |
| |  | | | | | |
| 652 | 1,1,2-Trichlorotrifluoroethane (Freon 113) | 1,1,2-Trichloro-1,2,2- trifluoro-ethane | 14.7 | 1.6 | 0 | 119.2 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

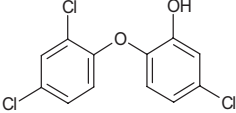
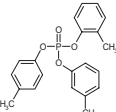
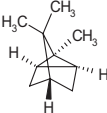
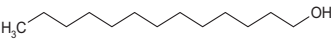
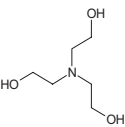
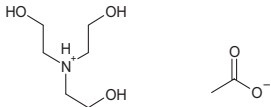
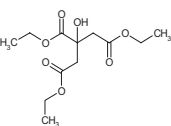
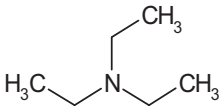
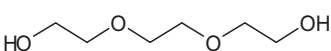
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|--|---|------------|----------|---------------------|-----------------|
| 1160 | Triclosan  | 5-Chloro-2-(2,4-dichloro-phenoxy)-phenol | 20.0 | 7.7 | 10.0 | 263.0 |
| 653 | Tricresyl Phosphate  | Phosphoric acid m-tolyl ester o-tolyl ester p-tolyl ester | 19.0 | 12.3 | 4.5 | 316.0 |
| 899 | Tricyclene  | (1S,2S,4R,6R)-1,7,7-Trimethyl-tricyclo[2.2.1.0*2,6*]heptane | 16.9 | 0 | 0 | 161.4 |
| 654 | Tridecyl Alcohol*  | Tridecan-1-ol | 16.2 | 3.1 | 9.0 | 242.0 |
| 655 | Triethanolamine  | 2-[Bis-(2-hydroxy-ethyl)-amino]-ethanol | 17.3 | 22.4 | 23.3 | 133.2 |
| 1194 | Triethanolamine/Acetic Acid  | Acetate tris-(2-hydroxy-ethyl)-ammonium; | 17.2 | 20.3 | 18.4 | |
| 1218 | Triethyl Citrate  | 3-Ethoxycarbonyl-3-hydroxy-pentanedioic acid diethyl ester | 16.5 | 4.9 | 12.0 | 243.0 |
| 656 | Triethylamine  | Triethyl-amine | 17.8 | 0.4 | 1.0 | 138.6 |
| 657 | Triethylene Glycol  | 2-[2-(2-Hydroxy-ethoxy)-ethoxy]-ethanol | 16.0 | 12.5 | 18.6 | 114.0 |

TABLE A.1 (CONTINUED)


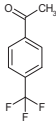
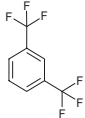
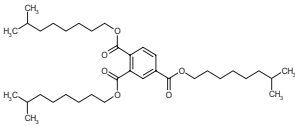
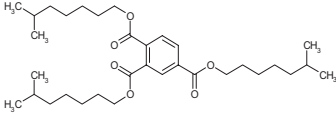
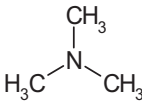
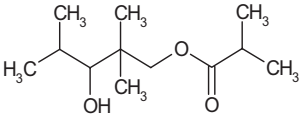
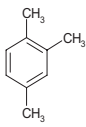
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|---|------------|----------|---------------------|-----------------|
| 662 | Trifluoromethane (Freon 23) | Trifluoro-methane | 14.4 | 8.9 | 6.5 | 46.1 |
| |  | | | | | |
| 847 | 4-(Trifluoromethyl) Acetophenone | 1-(4-Trifluoromethyl-phenyl)-ethanone | 18.8 | 6.1 | 3.5 | 151.7 |
| |  | | | | | |
| 1157 | 1,3-Bis(Trifluoromethyl)Benzene | 1,3-Bis-trifluoromethyl-benzene | 17.0 | 6.8 | 0 | 155.2 |
| |  | | | | | |
| 663 | Triisononyl Trimellitate | Benzene-1,2,4-tricarboxylic acid tris-(7-methyl-octyl) ester | 16.6 | 5.7 | 2.2 | 602.9 |
| |  | | | | | |
| 664 | Triisooctyl Trimellitate | Benzene-1,2,4-tricarboxylic acid tris-(6-methyl-heptyl) ester | 16.6 | 6.0 | 2.5 | 553.1 |
| |  | | | | | |
| 665 | Trimethyl Amine | Trimethyl-amine | 14.6 | 3.4 | 1.8 | 90.3 |
| |  | | | | | |
| 666 | 2,2,4-Trimethyl-1,3-Pentanediol Monoisobutyrate | Isobutyric acid 3-hydroxy-2,2,4-trimethyl-pentyl ester | 15.1 | 6.1 | 9.8 | 227.4 |
| |  | | | | | |
| 667 | Trimethylbenzene* | 1,2,4-Trimethyl-benzene | 18.0 | 1.0 | 1.0 | 137.3 |
| |  | | | | | |

TABLE A.1 (CONTINUED)


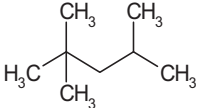
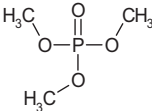
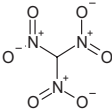
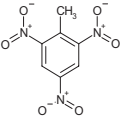
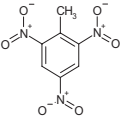
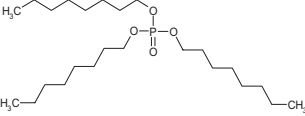
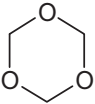
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|-------------------------------------|------------|----------|---------------------|-----------------|
| 669 | Trimethylenesulfide | Thietane | 18.8 | 7.8 | 9.4 | 72.8 |
| |  | | | | | |
| 670 | 2,2,4-Trimethylpentane | 2,2,4-Trimethyl-pentane | 14.1 | 0 | 0 | 166.1 |
| |  | | | | | |
| 671 | Trimethylphosphate | Phosphoric acid trimethyl ester | 16.7 | 15.9 | 10.2 | 115.8 |
| |  | | | | | |
| 934 | Trinitomethane | Trinitro-methane | 15.5 | 10.3 | 7.3 | 94.6 |
| |  | | | | | |
| 918 | Trinitrotoluene (TNT) P by Dipole Moment | 2-Methyl-1,3,5-trinitro- benzene | 19.5 | 3.7 | 4.5 | 137.6 |
| |  | | | | | |
| 919 | Trinitrotoluene (TNT) P by Group Cont. | 2-Methyl-1,3,5-trinitro- benzene | 19.5 | 10.0 | 4.5 | 137.6 |
| |  | | | | | |
| 1151 | Trioctylphosphate | Phosphoric acid trioctyl ester | 16.2 | 5.9 | 4.2 | 469.8 |
| |  | | | | | |
| 855 | 1,3,5-Trioxane | [1,3,5]Trioxane | 18.7 | 9.2 | 8.6 | 77.0 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

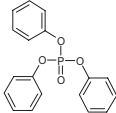
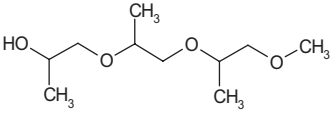

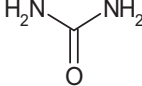
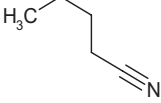
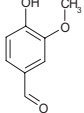
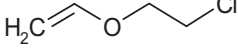
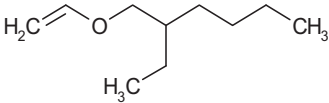
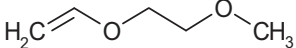
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|---|---|------------|----------|---------------------|-----------------|
| 1150 | Triphenyl Phosphate | Phosphoric acid triphenyl ester | 20.1 | 6.4 | 6.8 | 271.9 |
| |  | | | | | |
| 672 | Tripropylene Glycol Monomethyl Ether* | 1-[2-(2-Methoxy-1-methyl-ethoxy)-1-methyl-ethoxy]-propan-2-ol | 15.3 | 5.5 | 10.4 | 214.0 |
| |  | | | | | |
| 1059 | Undecane | Undecane | 16.0 | 0 | 0 | 212.7 |
| |  | | | | | |
| 860 | Urea (Ro = 19.4) | Urea | 20.9 | 18.7 | 26.4 | 45.8 |
| |  | | | | | |
| 673 | Valeronitrile | Pentanenitrile | 15.3 | 11.0 | 4.8 | 103.8 |
| |  | | | | | |
| 1162 | Vanillin (4-Hydroxy-3-Methoxy Benzaldehyde) | 4-Hydroxy-3-methoxy-benzaldehyde | 19.4 | 9.8 | 11.2 | 144.1 |
| |  | | | | | |
| 674 | Vinyl 2-Chloro Ethyl Ether | (2-Chloro-ethoxy)-ethene | 16.3 | 6.7 | 5.8 | 101.7 |
| |  | | | | | |
| 908 | Vinyl 2-Ethyl-Hexyl Ether | 3-Vinyloxymethyl-heptane | 15.6 | 3.4 | 4.2 | 194.2 |
| |  | | | | | |
| 675 | Vinyl 2-Methoxy Ethyl Ether | (2-Methoxy-ethoxy)-ethene | 15.9 | 6.7 | 6.8 | 96.2 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

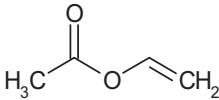
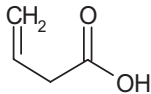
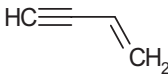
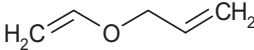
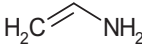
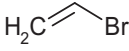

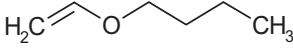
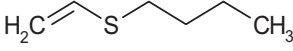
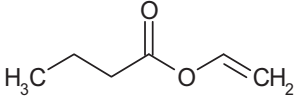
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|-----|---|---|------------|----------|---------------------|-----------------|
| 676 | Vinyl Acetate | Acetic acid vinyl ester | 16.0 | 7.2 | 5.9 | 92.6 |
| |  | | | | | |
| 677 | Vinyl Acetic Acid | But-3-enoic acid | 16.8 | 5.2 | 12.3 | 85.3 |
| |  | | | | | |
| 678 | Vinyl Acetylene | But-1-en-3-yne | 15.1 | 1.7 | 12.0 | 74.3 |
| |  | | | | | |
| 679 | Vinyl Allyl Ether | 3-Vinyloxy-propene | 14.9 | 6.5 | 5.3 | 105.4 |
| |  | | | | | |
| 742 | Vinyl Amine | Vinylamine | 15.7 | 7.2 | 11.8 | 51.8 |
| |  | | | | | |
| 680 | Vinyl Bromide | Bromo-ethene | 15.9 | 6.3 | 5.4 | 71.6 |
| |  | | | | | |
| 914 | Vinyl Butyl Carbitol | 1-[2-(2-Vinyloxy-ethoxy)-ethoxy]-butane | 16.0 | 5.0 | 6.0 | 206.2 |
| |  | | | | | |
| 964 | Vinyl Butyl Ether | 1-Vinyloxy-butane | 15.2 | 4.1 | 5.1 | 129.4 |
| |  | | | | | |
| 681 | Vinyl Butyl Sulfide | 1-Vinylsulfanyl-butane | 16.0 | 5.0 | 5.4 | 136.7 |
| |  | | | | | |
| 682 | Vinyl Butyrate | Butyric acid vinyl ester | 15.6 | 3.9 | 6.9 | 126.5 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

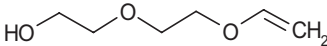
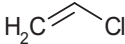
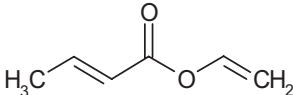
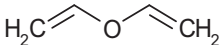
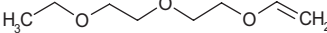
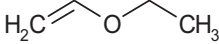
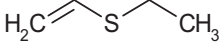
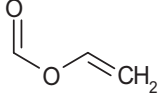
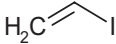
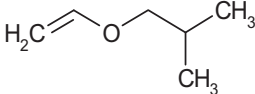
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|------|--|---|------------|----------|---------------------|-----------------|
| 906 | Vinyl Carbitol  | 2-(2-Vinyloxy-ethoxy)- ethanol | 16.3 | 7.5 | 13.8 | 129.2 |
| 683 | Vinyl Chloride  | Chloro-ethene | 16.0 | 6.5 | 2.4 | 68.7 |
| 684 | Vinyl Crotonate  | (E)-But-2-enoic acid vinyl ester | 15.9 | 5.0 | 9.0 | 118.8 |
| 685 | Vinyl Ether  | Vinyloxy-ethene | 14.8 | 4.2 | 5.8 | 90.7 |
| 907 | Vinyl Ethyl Carbitol  | [2-(2-Ethoxy-ethoxy)- ethoxy]-ethene | 15.9 | 6.0 | 6.6 | 171.9 |
| 1024 | Vinyl Ethyl Ether  | Ethoxy-ethene | 14.5 | 4.9 | 6.0 | 95.0 |
| 686 | Vinyl Ethyl Sulfide  | Ethylsulfanyl-ethene | 16.4 | 5.8 | 6.3 | 101.3 |
| 687 | Vinyl Formate  | Formic acid vinyl ester | 15.3 | 6.5 | 9.7 | 74.7 |
| 688 | Vinyl Iodide (Iodoethene)  | Iodo-ethene | 17.1 | 5.5 | 7.3 | 75.6 |
| 909 | Vinyl Isobutyl Ether  | 2-Methyl-1-vinyloxy- propane | 15.1 | 4.1 | 5.1 | 131.3 |

TABLE A.1 (CONTINUED)

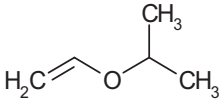
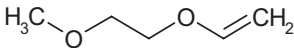
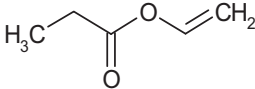
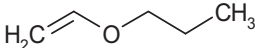
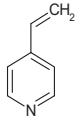
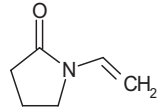
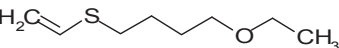
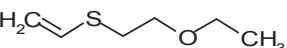
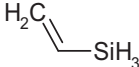
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|-----|---|-------------------------------------|------------|----------|---------------------|-----------------|
| 910 | Vinyl Isopropyl Ether | 2-Vinyloxy-propane | 14.7 | 3.5 | 5.2 | 115.3 |
| |  | | | | | |
| 911 | Vinyl Methyl Cellosolve | (2-Methoxy-ethoxy)- ethene | 15.6 | 6.2 | 6.8 | 114.7 |
| |  | | | | | |
| 689 | Vinyl Propionate | Propionic acid vinyl ester | 15.6 | 8.0 | 4.7 | 110.1 |
| |  | | | | | |
| 690 | Vinyl Propyl Ether | 1-Vinyloxy-propane | 14.9 | 3.5 | 5.2 | 113.0 |
| |  | | | | | |
| 843 | 4-Vinyl Pyridine | 4-Vinyl-pyridine | 18.1 | 7.2 | 6.8 | 107.3 |
| |  | | | | | |
| 691 | Vinyl Pyrrolidone | 1-Vinyl-pyrrolidin-2-one | 16.4 | 9.3 | 5.9 | 106.9 |
| |  | | | | | |
| 913 | Vinyl S-Butyl Mercapto Butyl Ether | 1-Ethoxy-4- vinylsulfanyl-butane | 16.5 | 5.0 | 5.8 | 174.0 |
| |  | | | | | |
| 912 | Vinyl S-Ethyl Mercapto Ethyl Ether | (2-Ethoxy- ethylsulfanyl)-ethene | 16.4 | 7.0 | 6.0 | 139.7 |
| |  | | | | | |
| 692 | Vinyl Silane | Vinyl-silane | 15.5 | 2.6 | 4.0 | 89.4 |
| |  | | | | | |

TABLE A.1 (CONTINUED)

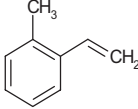
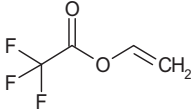
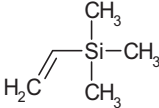
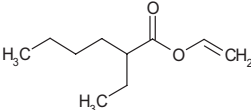
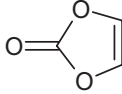
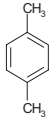
| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|-----|--|--------------------------------------|------------|----------|---------------------|-----------------|
| 916 | 2-Vinyl Toluene  | 1-Methyl-2-vinyl- benzene | 18.6 | 1.0 | 3.8 | 131.8 |
| 693 | Vinyl Trifluoro Acetate  | Trifluoro-acetic acid vinyl ester | 13.9 | 4.3 | 7.6 | 116.4 |
| 694 | Vinyl Trimethyl Silane  | Trimethyl-vinyl-silane | 14.5 | 1.0 | 2.5 | 145.3 |
| 915 | Vinyl-2-Ethyl Hexanoate  | 2-Ethyl-hexanoic acid vinyl ester | 15.6 | 2.7 | 5.8 | 196.0 |
| 695 | Vinylencarbonate  | [1,3]Dioxol-2-one | 17.3 | 18.1 | 9.6 | 86.0 |
| 696 | Water OH ₂ | Water | 15.5 | 16.0 | 42.3 | 18.0 |
| 859 | Water - 1% in Ro = 18.1 OH ₂ | Water | 15.1 | 20.4 | 16.5 | 18.0 |
| 858 | Water - Complete Miscibility Ro = 13.0 OH ₂ | Water | 18.1 | 17.1 | 16.9 | 18.0 |
| 697 | Xylene  | p-Xylene | 17.6 | 1.0 | 3.1 | 123.3 |

TABLE A.1 (CONTINUED)

| No. | Solvent Name | Autonom/ ACD Name | Dispersion | Polarity | Hydrogen Bonding | Molar Volume |
|-----|--------------|----------------------|------------|----------|---------------------|-----------------|
| 698 | o-Xylene | o-Xylene | 17.8 | 1.0 | 3.1 | 121.2 |

