William E Acree

List of Publications by Year
in descending order

913 papers	20,715 citations	17405 63 h-index	34900 98 g-index
925 all docs	925 docs citations	925 times ranked	6127 citing authors

#	Article	IF	Citations
1	Mathematical representation of thermodynamic properties. Thermochimica Acta, 1992, 198, 71-79.	1.2	533
2	Enthalpies of Sublimation of Organic and Organometallic Compounds. 1910â€“2001. Journal of Physical and Chemical Reference Data, 2002, 31, 537-698.	1.9	505
3	Enthalpies of Vaporization of Organic and Organometallic Compounds, 1880â€“2002. Journal of Physical and Chemical Reference Data, 2003, 32, 519-878.	1.9	485
4	Mathematical derivation of the Jouyban-Acree model to represent solute solubility data in mixed solvents at various temperatures. Journal of Molecular Liquids, 2018, 256, 541-547.	2.3	269
5	Prediction of Solubility of Drugs and Other Compounds in Organic Solvents. Journal of Pharmaceutical Sciences, 2010, 99, 1500-1515.	1.6	266
6	Improvement of Quality in Publication of Experimental Thermophysical Property Data: Challenges, Assessment Tools, Global Implementation, and Online Support. Journal of Chemical & Engineering Data, 2013, 58, 2699-2716.	1.0	236
7	Thermodynamic properties of non-electrolyte solutions. Thermochimica Acta, 1991, 178, 151-167.	1.2	234
8	Solubility of Carvedilol in Ethanol + Propylene Glycol Mixtures at Various Temperatures. Industrial & Engineering Chemistry Research, 2013, 52, 16630-16636.	1.8	209
9	Phase Transition Enthalpy Measurements of Organic and Organometallic Compounds. Sublimation, Vaporization and Fusion Enthalpies From 1880 to 2010. Journal of Physical and Chemical Reference Data, 2010, 39, .	1.9	207
10	Phase Transition Enthalpy Measurements of Organic and Organometallic Compounds. Sublimation, Vaporization and Fusion Enthalpies From 1880 to 2015. Part 1. C₁â^' C₁₀. Journal of Physical and Chemical Reference Data, 2016, 45, 033101.	1.9	191
11	Some Novel Liquid Partitioning Systems:Â Waterâ^'Ionic Liquids and Aqueous Biphasic Systems. Industrial & Engineering Chemistry Research, 2003, 42, 413-418.	1.8	186
12	Thermodynamic properties of organic compounds: enthalpy of fusion and melting point temperature compilation. Thermochimica Acta, 1991, 189, 37-56.	1.2	173
13	Mathematical Representation of Thermodynamic Properties. Carbazole Solubilities in Binary Alkane + Dibutyl Ether and Alkane + Tetrahydropyran Solvent Mixtures. Physics and Chemistry of Liquids, 1991, 23, 27-35.	0.4	168
14	Partition Coefficients of Organic Compounds in New Imidazolium and Tetralkylammonium Based Ionic Liquids Using Inverse Gas Chromatography. Journal of Chemical & Engineering Data, 2010, 55, 234-242.	1.0	148
15	Modeling the solubility and preferential solvation of gallic acid in cosolvent + water mixtures. Journal of Molecular Liquids, 2016, 224, 502-506.	2.3	138
16	A data base for partition of volatile organic compounds and drugs from blood/plasma/serum to brain, and an LFER analysis of the data. Journal of Pharmaceutical Sciences, 2006, 95, 2091-2100.	1.6	131
17	Comparative analysis of solvation and selectivity in room temperature ionic liquids using the Abraham linear free energy relationship. Green Chemistry, 2006, 8, 906.	4.6	130
18	Estimating Solidâ€“Liquid Phase Change Enthalpies and Entropies. Journal of Physical and Chemical Reference Data, 1999, 28, 1535-1673.	1.9	128

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19	Equations for the Transfer of Neutral Molecules and Ionic Species from Water to Organic phases. Journal of Organic Chemistry, 2010, 75, 1006-1015.	1.7	121
20	Enthalpy of Solvation Correlations for Gaseous Solutes Dissolved in Water and in 1-Octanol Based on the Abraham Model. Journal of Chemical Information and Modeling, 2007, 47, 115-121.	2.5	107
21	Phase Transition Enthalpy Measurements of Organic and Organometallic Compounds and Ionic Liquids. Sublimation, Vaporization, and Fusion Enthalpies from 1880 to 2015. Part 2. C11â€“C192. Journal of Physical and Chemical Reference Data, 2017, 46, .	1.9	103
22	Solubility predictions for crystalline polycyclic aromatic hydrocarbons (PAHs) dissolved in organic solvents based upon the Abraham general solvation model. Fluid Phase Equilibria, 2002, 201, 245-258.	1.4	99
23	Activity coefficients at infinite dilution measurements for organic solutes and water in the ionic liquid 1-ethyl-3-methylimidazolium tetracyanoborate. Journal of Chemical Thermodynamics, 2011, 43, 1050-1057.	1.0	99
24	The analysis of solvation in ionic liquids and organic solvents using the Abraham linear free energy relationship. Journal of Chemical Technology and Biotechnology, 2006, 81, 1441-1446.	1.6	98
25	A General Treatment of Solubility. 1. The QSPR Correlation of Solvation Free Energies of Single Solutes in Series of Solvents. Journal of Chemical Information and Computer Sciences, 2003, 43, 1794-1805.	2.8	97
26	Characterization of the sorption of gaseous and organic solutes onto polydimethyl siloxane solid-phase microextraction surfaces using the Abraham model. Journal of Chromatography A, 2007, 1175, 162-173.	1.8	97
27	Chemical Toxicity Correlations for Several Fish Species Based on the Abraham Solvation Parameter Model. Chemical Research in Toxicology, 2005, 18, 1497-1505.	1.7	94
28	Solubility of Chlordiazepoxide, Diazepam, and Lorazepam in Ethanol + Water Mixtures at 303.2 K. Journal of Chemical & Engineering Data, 2009, 54, 2142-2145.	1.0	94
29	Pharmaceuticals Solubility is Still Nowadays Widely Studied Everywhere. Pharmaceutical Sciences, 2017, 23, 1-2.	0.1	91
30	Study of Ether-, Alcohol-, or Cyano-Functionalized Ionic Liquids Using Inverse Gas Chromatography. Journal of Chemical & Engineering Data, 2010, 55, 2434-2443.	1.0	88
31	Solution thermodynamics and preferential solvation of sulfamethazine in (methanol + water) mixtures. Journal of Chemical Thermodynamics, 2016, 97, 264-276.	1.0	87
32	LFER correlations for room temperature ionic liquids: Separation of equation coefficients into individual cation-specific and anion-specific contributions. Fluid Phase Equilibria, 2008, 265, 104-111.	1.4	84
33	Title is missing!. Journal of Solution Chemistry, 2002, 31, 293-303.	0.6	83
34	Partition of solutes into wet and dry ethers; an LFER analysisElectronic supplementary information (ESI) available: tables of solute descriptors and log P values. Values of log Kw and L. See http://www.rsc.org/suppdata/nj/b3/b303016d/. New Journal of Chemistry, 2003, 27, 1041.	1.4	83
35	Activity Coefficients at Infinite Dilution of Organic Compounds in Trihexyl(tetradecyl)phosphonium Bis(trifluoromethylsulfonyl)imide Using Inverse Gas Chromatography. Journal of Chemical & Engineering Data, 2009, 54, 977-985.	1.0	83
36	An NMR Method for the Quantitative Assessment of Intramolecular Hydrogen Bonding; Application to Physicochemical, Environmental, and Biochemical Properties. Journal of Organic Chemistry, 2014, 79, 11075-11083.	1.7	83

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37	Experimental artifacts and determination of accurate Py values. Analyst, The, 1986, 111, 1197.	1.7	82
38	Solvation descriptors for ferrocene, and the estimation of some physicochemical and biochemical properties. New Journal of Chemistry, 2000, 24, 825-829.	1.4	81
39	Activity Coefficients at Infinite Dilution of Organic Compounds in Four New Imidazolium-Based Ionic Liquids. Journal of Chemical & Engineering Data, 2011, 56, 3106-3114.	1.0	81
40	Correlation of bloodâ€“brain penetration using structural descriptors. Bioorganic and Medicinal Chemistry, 2006, 14, 4888-4917.	1.4	80
41	Preferential solvation of etoricoxib in some aqueous binary cosolvent mixtures at 298.15ÂK. Physics and Chemistry of Liquids, 2017, 55, 291-303.	0.4	80
42	Solvation descriptors for pesticides from the solubility of solids: diuron as an example. Pest Management Science, 2000, 56, 1043-1053.	1.7	79
43	Characterization of Room-Temperature Ionic Liquids by the Abraham Model with Cation-Specific and Anion-Specific Equation Coefficients. Journal of Chemical Information and Modeling, 2007, 47, 1123-1129.	2.5	79
44	Partition of solutes from the gas phase and from water to wet and dry di-n-butyl ether: a linear free energy relationship analysis. Physical Chemistry Chemical Physics, 2001, 3, 3732-3736.	1.3	78
45	Descriptors for solutes from the solubility of solids: trans-stilbene as an example. Journal of the Chemical Society Perkin Transactions II, 1998, , 2677-2682.	0.9	77
46	Thermodynamics and activity coefficients at infinite dilution measurements for organic solutes and water in the ionic liquid 1-butyl-1-methylpyrrolidinium tetracyanoborate. Journal of Chemical Thermodynamics, 2011, 43, 1810-1817.	1.0	77
47	The partition of compounds from water and from air into wet and dry ketones. New Journal of Chemistry, 2009, 33, 568-573.	1.4	74
48	The solubility of gases and vapours in dry octan-1-ol at 298 K. Chemosphere, 2001, 44, 855-863.	4.2	73
49	Air to Blood Distribution of Volatile Organic Compounds:â€‰ A Linear Free Energy Analysis. Chemical Research in Toxicology, 2005, 18, 904-911.	1.7	73
50	Partition of compounds from gas to water and from gas to physiological saline at 310K: Linear free energy relationships. Fluid Phase Equilibria, 2007, 251, 93-109.	1.4	73
51	The transfer of neutral molecules, ions and ionic species from water to wet octanol. Physical Chemistry Chemical Physics, 2010, 12, 13182.	1.3	73
52	Activity Coefficients at Infinite Dilution for Organic Compounds Dissolved in 1-Alkyl-1-methylpyrrolidinium Bis(trifluoromethylsulfonyl)imide Ionic Liquids Having Six-, Eight-, and Ten-Carbon Alkyl Chains. Journal of Chemical & Engineering Data, 2012, 57, 3510-3518.	1.0	73
53	The transfer of neutral molecules, ions and ionic species from water to ethylene glycol and to propylene carbonate; descriptors for pyridinium cations. New Journal of Chemistry, 2010, 34, 2298.	1.4	72
54	Activity Coefficients at Infinite Dilution for Organic Solutes Dissolved in Three 1-Alkyl-1-methylpyrrolidinium Bis(trifluoromethylsulfonyl)imide Ionic Liquids Bearing Short Linear Alkyl Side Chains of Three to Five Carbons. Journal of Chemical & Engineering Data, 2013, 58, 2210-2218.	1.0	72

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55	Thermochemical investigations of nearly ideal binary solvents. 3. Solubility in systems of nonspecific interactions. The Journal of Physical Chemistry, 1977, 81, 1170-1173.	2.9	70
56	Linear Free Energy Relationship Correlations for Room Temperature Ionic Liquids: Revised Cation-Specific and Anion-Specific Equation Coefficients for Predictive Applications Covering a Much Larger Area of Chemical Space. Industrial & Engineering Chemistry Research, 2009, 48, 4145-4154.	1.8	69
57	Solubility and preferential solvation of some n-alkyl-parabens in methanol+water mixtures at 298.15K. Journal of Chemical Thermodynamics, 2017, 108, 26-37.	1.0	68
58	Solubility in Binary Solvent Systems III: Predictive Expressions Based on Molecular Surface Areas. Journal of Pharmaceutical Sciences, 1983, 72, 292-296.	1.6	67
59	Solubility of 9-fluorenone, thianthrene and xanthene in organic solvents. Fluid Phase Equilibria, 2005, 232, 113-121.	1.4	67
60	Solubility of phenobarbital in aqueous cosolvent mixtures revisited: IKBI preferential solvation analysis. Physics and Chemistry of Liquids, 2017, 55, 432-443.	0.4	66
61	Fluorescence Emission Properties of Polycyclic Aromatic Compounds in Review. Polycyclic Aromatic Compounds, 1991, 2, 75-105.	1.4	65
62	Solubility predictions for crystalline nonelectrolyte solutes dissolved in organic solvents based upon the Abraham general solvation model. Canadian Journal of Chemistry, 2001, 79, 1466-1476.	0.6	65
63	Air to liver partition coefficients for volatile organic compounds and blood to liver partition coefficients for volatile organic compounds and drugs. European Journal of Medicinal Chemistry, 2007, 42, 743-751.	2.6	65
64	The Solvation Properties of the Aliphatic Alcohols. Collection of Czechoslovak Chemical Communications, 1999, 64, 1748-1760.	1.0	64
65	Correlation and prediction of the solubility of Buckminsterfullerene in organic solvents; estimation of some physicochemical properties. Perkin Transactions II RSC, 2000, , 281-286.	1.1	64
66	Solubility of crystalline nonelectrolyte solutes in organic solvents: mathematical correlation of 4-chloro-3-nitrobenzoic acid and 2-chloro-5-nitrobenzoic acid solubilities with the Abraham solvation parameter model. Physics and Chemistry of Liquids, 2005, 43, 351-360.	0.4	64
67	Correlation and prediction of partition coefficient between the gas phase and water, and the solvents dry methyl acetate, dry and wet ethyl acetate, and dry and wet butyl acetate. Fluid Phase Equilibria, 2008, 270, 30-44.	1.4	64
68	Solute Descriptors for Phenoxide Anions and Their Use To Establish Correlations of Rates of Reaction of Anions with Iodomethane. Journal of Organic Chemistry, 2010, 75, 3021-3026.	1.7	64
69	Py and BPe solvent polarity scales: effect of temperature on pyrene and benzo[ghi]perylene fluorescence spectra. Analyst, The, 1988, 113, 1465.	1.7	63
70	Air to Muscle and Blood/Plasma to Muscle Distribution of Volatile Organic Compounds and Drugs:â€‰ Linear Free Energy Analyses. Chemical Research in Toxicology, 2006, 19, 801-808.	1.7	63
71	Partition of compounds from water and from air into amides. New Journal of Chemistry, 2009, 33, 2034.	1.4	60
72	Thermochemical excess properties of multicomponent systems: Representation and estimation from binary mixing data. Journal of Solution Chemistry, 1983, 12, 327-346.	0.6	59

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73	Air toÂbrain, blood toÂbrain andÂplasma toÂbrain distribution ofÂvolatile organic compounds: linear free energy analyses. European Journal of Medicinal Chemistry, 2006, 41, 494-502.	2.6	58
74	Descriptors for ions and ion-pairs for use in linear free energy relationships. Journal of Chromatography A, 2016, 1430, 2-14.	1.8	58
75	Solubility of Acetaminophen and Ibuprofen in the Mixtures of Polyethylene Glycol 200 or 400 with Ethanol and Water and the Density of Solute-Free Mixed Solvents at 298.2 K. Journal of Chemical & Engineering Data, 2010, 55, 5252-5257.	1.0	57
76	Solubility of Crystalline Nonelectrolyte Solutes in Organic Solvents: Mathematical Correlation of Acetylsalicylic Acid Solubilities with the Abraham General Solvation Model. Journal of Solution Chemistry, 2003, 32, 1087-1102.	0.6	56
77	Solubility prediction of polycyclic aromatic hydrocarbons in non-aqueous solvent mixtures. Fluid Phase Equilibria, 2010, 293, 47-58.	1.4	56
78	Solubility of gases and vapours in propan-1-ol at 298 K. Journal of Physical Organic Chemistry, 1999, 12, 675-680.	0.9	55
79	Solubility of naproxen in ethyl acetate+ethanol mixtures at several temperatures and correlation with the Jouybanâ€“Acree model. Fluid Phase Equilibria, 2012, 320, 49-55.	1.4	55
80	Partition Coefficients of Organic Compounds in Four New Tetraalkylammonium Bis(trifluoromethylsulfonyl)imide Ionic Liquids Using Inverse Gas Chromatography. Journal of Chemical & Engineering Data, 2011, 56, 3688-3697.	1.0	54
81	Solubility Prediction of Drugs in Mixed Solvents Using Partial Solubility Parameters. Journal of Pharmaceutical Sciences, 2011, 100, 4368-4382.	1.6	53
82	Solubility in Binary Solvent Systems I: Specific versus Nonspecific Interactions. Journal of Pharmaceutical Sciences, 1982, 71, 201-205.	1.6	52
83	Air to lung partition coefficients for volatile organic compounds and blood to lung partition coefficients for volatile organic compounds and drugs. European Journal of Medicinal Chemistry, 2008, 43, 478-485.	2.6	51
84	Development of Abraham model correlations for solvation characteristics of linear alcohols. Fluid Phase Equilibria, 2009, 286, 170-174.	1.4	51
85	Thermochemical behavior of dissolved carboxylic acid solutes: Solubilities of 3-methylbenzoic acid and 4-chlorobenzoic acid in organic solvents. Canadian Journal of Chemistry, 2003, 81, 1492-1501.	0.6	49
86	Thermochemical behavior of dissolved carboxylic acid solutes: part 4 â€“ mathematical correlation of 4-nitrobenzoic acid solubilities with the abraham solvation parameter model. Physics and Chemistry of Liquids, 2004, 42, 339-347.	0.4	49
87	Correlation and prediction of solute transfer to chloroalkanes from both water and the gas phase. Fluid Phase Equilibria, 2009, 281, 144-162.	1.4	49
88	Partition Coefficients and Solubilities of Compounds in the Waterâ€“Ethanol Solvent System. Journal of Solution Chemistry, 2011, 40, 1279-1290.	0.6	49
89	Abraham model correlations for describing solute transfer into diisopropyl ether. Physics and Chemistry of Liquids, 2015, 53, 25-37.	0.4	49
90	Solubility Prediction of Drugs in Binary Solvent Mixtures at Various Temperatures Using a Minimum Number of Experimental Data Points. AAPS PharmSciTech, 2019, 20, 10.	1.5	48

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91	Thermochemical Investigations of Associated Solutions. 3. Effect of the Inert Cosolvent on Solute-Solvent Association Constants Calculated from Solubility Measurements. Physics and Chemistry of Liquids, 1987, 17, 123-138.	0.4	47
92	Polycyclic Aromatic Hydrocarbon Solute Probes: Effect of Solvent Polarity on the Ovalene and Benzo[ghi]perylene Fluorescence Emission Fine Structures. Applied Spectroscopy, 1988, 42, 1525-1531.	1.2	47
93	Thermochemical behavior of dissolved Carboxylic Acid solutes: Part 3 â€“ Mathematical Correlation of 2-Methylbenzoic acid solubilities with the Abraham Solvation Parameter Model. Physics and Chemistry of Liquids, 2004, 42, 313-322.	0.4	47
94	Correlation of the toxicity of organic compounds to tadpoles using the Abraham model. Science of the Total Environment, 2006, 371, 99-109.	3.9	47
95	Mathematical correlation of 1-chloroanthraquinone solubilities in organic solvents with the Abraham solvation parameter model. Physics and Chemistry of Liquids, 2006, 44, 377-386.	0.4	47
96	Thermochemical Investigations of Nearly Ideal Binary Solvents VII: Monomer and Dimer Models for Solubility of Benzoic Acid in Simple Binary and Ternary Solvents. Journal of Pharmaceutical Sciences, 1981, 70, 1033-1036.	1.6	46
97	Modeling acid dissociation constant of analytes in binary solvents at various temperatures using Jouybanâ€“Acree model. Thermochimica Acta, 2005, 428, 119-123.	1.2	46
98	Development of Abraham model correlations for solvation characteristics of secondary and branched alcohols. Fluid Phase Equilibria, 2010, 288, 121-127.	1.4	46
99	Activity coefficients at infinite dilution for organic solutes dissolved in two 1-alkylquinuclidinium bis(trifluoromethylsulfonyl)imides bearing alkyl side chains of six and eight carbons. Journal of Molecular Liquids, 2016, 215, 176-184.	2.3	46
100	Correlation and prediction of partition coefficients between the gas phase and water, and the solvents dodecane and undecane. New Journal of Chemistry, 2004, 28, 1538.	1.4	45
101	Correlations for describing gas-to-ionic liquid partitioning at 323K based on ion-specific equation coefficient and group contribution versions of the Abraham model. Fluid Phase Equilibria, 2011, 301, 257-266.	1.4	45
102	Abraham model correlations for solute transfer into tributyl phosphate from both water and the gas phase. Physics and Chemistry of Liquids, 2015, 53, 10-24.	0.4	45
103	A General Treatment of Solubility. 2. QSPR Prediction of Free Energies of Solvation of Specified Solutes in Ranges of Solvents. Journal of Chemical Information and Computer Sciences, 2003, 43, 1806-1814.	2.8	44
104	Enthalpy of solvation correlations for gaseous solutes dissolved in dimethyl sulfoxide and propylene carbonate based on the Abraham model. Thermochimica Acta, 2007, 459, 17-25.	1.2	44
105	Correlation and Prediction of Partition Coefficients From the Gas Phase and from Water to Alkan-1-ols. Industrial & Engineering Chemistry Research, 2008, 47, 3990-3995.	1.8	44
106	Equilibrium solubility, Hansen solubility parameter, dissolution thermodynamics, transfer property and preferential solvation of zonisamide in aqueous binary mixtures of ethanol, acetonitrile, isopropanol and N,N-dimethylformamide. Journal of Molecular Liquids, 2021, 326, 115219.	2.3	44
107	Further Numerical Analyses on the Solubility of Sulfapyridine in Ethanol + Water Mixtures. Pharmaceutical Sciences, 2016, 22, 143-152.	0.1	44
108	Polycyclic aromatic hydrocarbon solute probes. Part II. Effect of solvent polarity on the fluorescence emission fine structures of coronene derivatives. Analyst, The, 1989, 114, 195.	1.7	43

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109	Spectroscopic Investigation of Fluorescence Quenching Agents. Part II: Effect of Nitromethane on the Fluorescence Emission Behavior of Thirty-Six Alternant Benzenoid Polycyclic Aromatic Hydrocarbons. Applied Spectroscopy, 1992, 46, 1260-1265.	1.2	43
110	Solubility of crystalline nonelectrolyte solutes in organic solvents Â— Mathematical correlation of 2-methoxybenzoic acid and 4-methoxybenzoic acid solubilities with the Abraham solvation parameter model. Canadian Journal of Chemistry, 2004, 82, 1353-1360.	0.6	43
111	Chemical toxicity correlations for several protozoas, bacteria, and water fleas based on the Abraham solvation parameter model. Journal of Environmental Engineering and Science, 2007, 6, 165-174.	0.3	43
112	Solubility of Lamotrigine, Diazepam, Clonazepam, and Phenobarbital in Propylene Glycol + Water Mixtures at 298.15 K. Journal of Chemical & Engineering Data, 2009, 54, 1153-1157.	1.0	43
113	Solubility of Budesonide, Hydrocortisone, and Prednisolone in Ethanol + Water Mixtures at 298.2 K. Journal of Chemical & Engineering Data, 2010, 55, 578-582.	1.0	43
114	Polycyclic Aromatic Hydrocarbon Solute Probes. Part IV: Effect of Solvent Polarity on the Fluorescence Emission Fine Structures of Select Pyrene and Pentaphene Derivatives. Applied Spectroscopy, 1989, 43, 845-850.	1.2	42
115	Spectroscopic Properties of Polycyclic Aromatic Hydrocarbons: Effect of Solvent Polarity on the Fluorescence Emission Behavior of Select Fluoranthene, Fluorenochrysene, Indenochrysene, and Indenopyrene Derivatives. Applied Spectroscopy, 1991, 45, 1699-1705.	1.2	42
116	Enthalpy of Solvation Correlations for Gaseous Solutes Dissolved in Toluene and Carbon Tetrachloride Based on the AbrahamÂModel. Journal of Solution Chemistry, 2007, 36, 947-966.	0.6	42
117	Solubility of Lamotrigine, Diazepam, and Clonazepam in Ethanol + Water Mixtures at 298.15 K. Journal of Chemical & Engineering Data, 2009, 54, 1107-1109.	1.0	42
118	Thermochemical investigations of solute transfer into ionic liquid solvents: updated Abraham model equation coefficients for solute activity coefficient and partition coefficient predictions. Physics and Chemistry of Liquids, 2014, 52, 488-518.	0.4	42
119	Ion-specific equation coefficient version of the Abraham model for ionic liquid solvents: determination of coefficients for tributylethylphosphonium, 1-butyl-1-methylmorpholinium, 1-allyl-3-methylimidazolium and octyltriethylammonium cations. Physics and Chemistry of Liquids, 2017, 55, 358-385.	0.4	42
120	Calculation of Five Thermodynamic Molecular Descriptors by Means of a General Computer Algorithm Based on the Group-Additivity Method: Standard Enthalpies of Vaporization, Sublimation and Solvation, and Entropy of Fusion of Ordinary Organic Molecules and Total Phase-Change Entropy of Liquid Crystals. Molecules, 2017, 22, 1059.	1.7	42
121	Solubility of pyrene in binary solvent mixtures containing cyclohexane. Journal of Chemical & Engineering Data, 1987, 32, 60-62.	1.0	41
122	Solubility of trans-stilbene in organic nonelectrolyte solvents. Comparison of observed versus predicted values based upon mobile order theory. Canadian Journal of Chemistry, 1997, 75, 258-261.	0.6	41
123	Solubility Prediction of Anthracene in Mixed Solvents Using a Minimum Number of Experimental Data.. Chemical and Pharmaceutical Bulletin, 2002, 50, 21-25.	0.6	41
124	Generally trained models to predict solubility of drugs in carbitol + water mixtures at various temperatures. Journal of Molecular Liquids, 2016, 219, 435-438.	2.3	41
125	Thermochemical investigations of hydrogen-bonded solutions: development of a predictive equation for the solubility of anthracene in binary hydrocarbon. Fluid Phase Equilibria, 1994, 92, 233-253.	1.4	40
126	QSAR modeling of blood:air and tissue:air partition coefficients using theoretical descriptors. Bioorganic and Medicinal Chemistry, 2005, 13, 6450-6463.	1.4	40

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127	Abraham model correlations for solute transfer into 2-methoxyethanol from water and from the gas phase. Journal of Molecular Liquids, 2015, 209, 738-744.	2.3	40
128	Predicting Abraham model solvent coefficients. Chemistry Central Journal, 2015, 9, 12.	2.6	40
129	Gas-solvent and water-solvent partition of trans -stilbene at 298 K. Journal of Molecular Liquids, 2017, 238, 58-61.	2.3	40
130	Dissolution thermodynamics and preferential solvation of ketoconazole in some {ethanol (1) + water (2)} mixtures. Journal of Molecular Liquids, 2020, 313, 113579.	2.3	40
131	Thermochemical Investigations of Associated Solutions: Calculation of Soluteâ€“Solvent Equilibrium Constants from Solubility Measurements. Journal of Pharmaceutical Sciences, 1983, 72, 929-934.	1.6	39
132	Thermochemical Investigations of Associated Solutions: 4. Calculation of Carbazoleâ€“Dibutyl Ether Association Constants from Measured Solubility in Binary Solvent Mixtures. Journal of Pharmaceutical Sciences, 1987, 76, 572-574.	1.6	39
133	Mathematical correlation of salicylamide solubilities in organic solvents with the Abraham solvation parameter model. Physics and Chemistry of Liquids, 2007, 45, 389-398.	0.4	39
134	Abraham Model Correlations for Transfer of Neutral Molecules to Tetrahydrofuran and to 1,4-Dioxane, and for Transfer of Ions to Tetrahydrofuran. Journal of Solution Chemistry, 2011, 40, 2082-2094.	0.6	39
135	Evaluating the solvation properties of functionalized ionic liquids with varied cation/anion composition using the solvation parameter model. Journal of Chromatography A, 2011, 1218, 5311-5318.	1.8	39
136	Descriptors for the Prediction of Partition Coefficients and Solubilities of Organophosphorus Compounds. Separation Science and Technology, 2013, 48, 884-897.	1.3	39
137	Development of Abraham model correlations for solute transfer into both 2-propoxyethanol and 2-isopropoxyethanol at 298.15 K. Journal of Molecular Liquids, 2015, 212, 833-840.	2.3	39
138	SOLUBILITY OF ANTHRACENE IN TERNARY PROPANOL + BUTANOL + HEPTANE SOLVENT MIXTURES. Chemical Engineering Communications, 1999, 172, 217-224.	1.5	38
139	Phase Change Enthalpies and Entropies of Liquid Crystals. Journal of Physical and Chemical Reference Data, 2006, 35, 1051-1330.	1.9	38
140	Enthalpy of Solvation Correlations for Gaseous Solutes Dissolved in Benzene and in Alkane Solvents Based on the Abraham Model. QSAR and Combinatorial Science, 2007, 26, 881-888.	1.5	38
141	Partition of compounds from water and from air into the wet and dry monohalobenzenes. New Journal of Chemistry, 2009, 33, 1685.	1.4	38
142	Mathematical correlations for describing solute transfer into functionalized alkane solvents containing hydroxyl, ether, ester or ketone solvents. Fluid Phase Equilibria, 2010, 298, 48-53.	1.4	38
143	Infinite Dilution Activity Coefficients of Solutes Dissolved in Two Trihexyl(tetradecyl)phosphonium Ionic Liquids. Journal of Chemical & Engineering Data, 2014, 59, 1877-1885.	1.0	38
144	Abraham model correlations for describing solute transfer into anhydrous 1,2-propylene glycol for neutral and ionic species. Physics and Chemistry of Liquids, 2016, 54, 1-13.	0.4	38

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145	Thermochemical investigations of nearly idial binary solvents. 6. Solubilities of iodine and benzil in systems of nonspecific interactions. Journal of Solution Chemistry, 1983, 12, 101-113.	0.6	37
146	Spectroscopic Investigation of Fluorescence Quenching Agents: Effect of Nitromethane on the Fluorescence Emission Behavior of Select Cyclopenta-PAH, Aceanthrylene, and Fluorene Derivatives. Applied Spectroscopy, 1992, 46, 1156-1161.	1.2	37
147	Thermochemical investigations of hydrogen-bonded solutions Part 5. Development of predictive equations for the solubility of anthracene in binary alcohol + alcohol mixtures based upon mobile order theory. Fluid Phase Equilibria, 1994, 99, 167-183.	1.4	37
148	Comments concerning â€˜Model for solubility estimation in mixed solvent systemsâ€™. International Journal of Pharmaceutics, 1996, 127, 27-30.	2.6	37
149	Determination of Abraham model solute descriptors for benzoin based on measured solubility ratios. Physics and Chemistry of Liquids, 2012, 50, 254-265.	0.4	37
150	Abraham model correlations for describing solute transfer into 2-butoxyethanol from both water and the gas phase at 298K. Journal of Molecular Liquids, 2015, 209, 196-202.	2.3	37
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