

Mixture Data

Data Banks		Short Term Number of Data Sets
Vapor-Liquid Equilibria		
a) Normal boiling point of all components above 0 °C	VLE	28.167
b) Normal boiling point of at least a single component below 0 °C	HPV	26.975
c) Electrolyte systems	ELE	6.872
Activity Coefficients at Infinite Dilution		
a) Pure solvents	ACT	50.853
b) Mixed solvents	ACM	1.110
Azeotropic Data	AZD	50.200
Liquid-Liquid Equilibria	LLE	18.546
Solid-Liquid Equilibria	SLE	23.677
Salt Solubilities	ESLE	23.808
Gas Solubilities	GLE	18.249
Gas Solubilities - Electrolyte Systems	EGLE	1.358
Critical Data of Mixtures	CRI	1.674
Heats of Mixing	HE	18.607
Heat Capacities of Mixtures and Excess Heat Capacities	CPE	2.872
Mixture Densities and Excess Volumes	VE	32.996
Adsorption Equilibria	ADS	3.576
Partition Coefficients (Octanol-Water)	KOW	7.720
Polymer Data Base	POLY	15.832

Data on Pure Components

Property	Compounds	References	Sets	Points
Dynamic Viscosity	2.485	2.722	16.722	104.635
Vapor Pressure	7.922	7.733	29.159	186.253
Critical Data	1.084	961	3.576	3.583
Triple Point	250	199	335	349
Kinematic Viscosity	690	263	1.554	7.060
Density	8.167	7.286	45.869	323.705
Melting Point	6.374	3.124	14.095	15.821
Molar Heat Capacity (cP)	2.771	2.106	11.157	211.217
Virial Coefficients	265	342	856	4.644
Heat of Vaporization	2.713	1.160	5.474	14.068
Heat of Fusion	1.789	1.021	2.688	2.785
Thermal Conductivity	853	967	9.180	96.465
Boiling Point	23	5	28	28
Surface Tension	2.218	723	5.009	22.480
Entropy	1.495	930	2.691	9.554
Std. Heat of Combustion	1.584	495	1.845	1.854
Std. Heat of Formation	3.034	1.287	4.614	5.668
Enthalpy (H-H0)	336	219	553	9.416
Enthalpy (H-H298)	54	41	80	1.409
Gibbs Energy of Form./T	82	35	91	1.324
Gibbs Energy of Form.	61	40	71	226
G-function (G-G0)/T	1.208	565	1.908	28.506
Enthalpy (H-H0)/T	112	57	159	2.624
Transition Temperature	668	397	1.144	1.272
Heat of Transition	472	361	839	903
Molar Heat Capacity (cV)	93	95	1.066	12.765
Ideal Gas Heat Capacity	1.299	718	2.273	31.053
Dielectric Constant	658	244	1.664	8.544
Speed of Sound	580	428	3.689	30.476
Flash Point	104	5	108	109
Molar Saturation Heat Capacity	56	20	151	2.815
Heat of Sublimation	276	125	422	1.066
Entropy of Vaporization	12	5	13	71
Entropy of Formation	69	40	81	1.003
Enthalpy	58	27	108	4.449
Entropy (S-S0)	85	53	264	5.098
Thermal Expansion Coefficient	42	14	112	856
Compressibility (isothermal)	29	8	69	623
Entropy of Sublimation	21	6	21	25

Total	17.928	21.896	169.841	1.156.113