Diisopropylethylamine

Other names:	(CH3)2CHN(C2H5)CH(CH3)2
	(i-C3H7)2(C2H5)N
	1,1'-Dimethyltriethylamine
	2-Propanamine, N-ethyl-N-(1-methylethyl)-
	Bis(1-methylethyl)ethylamine
	Ethyldiisopropylamine
	Hunig's base
	Hunig's reagent
	N,N-diisopropylethylamine
	N-Ethyl-N,N-diisopropylamine
	N-ethyl-N-(1-methylethyl)-1-methylethanamine
	N-ethyl-N-isopropylisopropylamine
	N-ethyldiisopropylamine
	NSC 147491
	Triethylamine, 1,1'-dimethyl-
Inchi:	InChI=1S/C8H19N/c1-6-9(7(2)3)8(4)5/h7-8H,6H2,1-5H3
InchiKey:	JGFZNNIVVJXRND-UHFFFAOYSA-N
Formula:	C8H19N
SMILES:	CCN(C(C)C)C(C)C
Mol. weight [g/mol]:	129.24
CAS:	7087-68-5

Physical Properties

Property code	Value	Unit	Source
affp	994.30	kJ/mol	NIST Webbook
basg	963.50	kJ/mol	NIST Webbook
gf	122.38	kJ/mol	Joback Method
hf	-151.48	kJ/mol	Joback Method
hfus	12.45	kJ/mol	Joback Method
hvap	34.67	kJ/mol	Joback Method
log10ws	-1.96		Crippen Method
logp	2.125		Crippen Method
mcvol	133.560	ml/mol	McGowan Method
pc	2571.50	kPa	Joback Method
tb	399.70	K	NIST Webbook
tc	563.76	K	Joback Method
tf	182.39	K	Joback Method

vc	0.489	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	261.03	J/mol×K	394.00	Joback Method
cpg	275.94	J/mol×K	422.29	Joback Method
cpg	290.24	J/mol×K	450.59	Joback Method
cpg	303.95	J/mol×K	478.88	Joback Method
cpg	317.09	J/mol×K	507.17	Joback Method
cpg	329.67	J/mol×K	535.46	Joback Method
cpg	341.72	J/mol×K	563.76	Joback Method
rhol	742.00	kg/m3	298.15	Physico-Chemical Properties of Non-Newtonian Shear Thickening Diisopropyl-ethylammonium-Based Protic Ionic Liquids and Their Mixtures with Water and Acetonitrile

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C7087685&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Physico-Chemical Properties of Non-Newtonian Shear Thickening Diisopropyl-ethylammonium-Based Protic Ionic Liquids and Their Mixtures with Water and Acetonitrile:	https://www.doi.org/10.1021/je101191e
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

affp:	Proton affinity
basg:	Gas basicity
cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation

hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rhol:	Liquid Density
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume