1-Propanamine, 2-methyl, N,N-diethyl

Other names: Diethyl isobutylamine
Inchi: InChI=1S/C8H19N/c1-5-9(6-2)7-8(3)4/h8H,5-7H2,1-4H3
InchiKey: SDJXWHZCYABKHD-UHFFFAOYSA-N
Formula: C8H19N
SMILES: CCN(CC)CC(C)C
Mol. weight [g/mol]: 129.24

Physical Properties

Property code	Value	Unit	Source
gf	124.82	kJ/mol	Joback Method
hf	-146.20	kJ/mol	Joback Method
hfus	15.97	kJ/mol	Joback Method
hvap	35.06	kJ/mol	Joback Method
log10ws	-1.50		Crippen Method
logp	1.984		Crippen Method
mcvol	133.560	ml/mol	McGowan Method
pc	2550.76	kPa	Joback Method
rinpol	793.00		NIST Webbook
rinpol	793.00		NIST Webbook
tb	394.44	K	Joback Method
tc	560.41	K	Joback Method
tf	197.39	K	Joback Method
vc	0.495	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	261.14	J/mol×K	394.44	Joback Method
cpg	275.63	J/mol×K	422.10	Joback Method
cpg	289.54	J/mol×K	449.76	Joback Method
cpg	302.90	J/mol×K	477.42	Joback Method
cpg	315.71	J/mol×K	505.09	Joback Method
cpg	328.00	J/mol×K	532.75	Joback Method
cpg	339.78	J/mol×K	560.41	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R12878&Units=SI

Legend

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume