Dipropyl isoamylamine

Other names: 1-Butanamine, 3-methyl, N,N-dipropyl
Inchi: InChI=1S/C11H25N/c1-5-8-12(9-6-2)10-7-11(3)4/h11H,5-10H2,1-4H3
InchiKey: RFUPECOMRWJNES-UHFFFAOYSA-N
Formula: C11H25N
SMILES: CCCN(CCC)CCC(C)C
Mol. weight [g/mol]: 171.32

Physical Properties

Property code	Value	Unit	Source
gf	150.08	kJ/mol	Joback Method
hf	-208.12	kJ/mol	Joback Method
hfus	23.74	kJ/mol	Joback Method
hvap	41.73	kJ/mol	Joback Method
log10ws	-2.76		Crippen Method
logp	3.155		Crippen Method
mcvol	175.830	ml/mol	McGowan Method
pc	1944.08	kPa	Joback Method
rinpol	1053.00		NIST Webbook
rinpol	1053.00		NIST Webbook
tb	463.08	K	Joback Method
tc	626.85	K	Joback Method
tf	231.20	K	Joback Method
vc	0.663	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	393.84	J/mol×K	463.08	Joback Method
cpg	410.96	J/mol×K	490.37	Joback Method
cpg	427.39	J/mol×K	517.67	Joback Method
cpg	443.16	J/mol×K	544.96	Joback Method
cpg	458.28	J/mol×K	572.26	Joback Method
cpg	472.77	J/mol×K	599.55	Joback Method
cpg	486.66	J/mol×K	626.85	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R12846&Units=SI
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

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