2-Propanamine, 2-methyl, N,N-dipropyl

Other names: Dipropyl tert.-butylamine
Inchi: InChI=1S/C10H23N/c1-6-8-11(9-7-2)10(3,4)5/h6-9H2,1-5H3
InchiKey: RYUWVGCLOZKTKH-UHFFFAOYSA-N
Formula: C10H23N
SMILES: CCCN(CCC)C(C)(C)C
Mol. weight [g/mol]: 157.30

Physical Properties

Property code	Value	Unit	Source
gf	146.94	kJ/mol	Joback Method
hf	-190.95	kJ/mol	Joback Method
hfus	17.26	kJ/mol	Joback Method
hvap	38.60	kJ/mol	Joback Method
log10ws	-2.69		Crippen Method
logp	2.907		Crippen Method
mcvol	161.740	ml/mol	McGowan Method
pc	2141.36	kPa	Joback Method
rinpol	972.00		NIST Webbook
tb	437.41	K	Joback Method
tc	608.39	K	Joback Method
tf	237.35	K	Joback Method
vc	0.603	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	349.33	J/mol×K	437.41	Joback Method
cpg	366.70	J/mol×K	465.91	Joback Method
cpg	383.26	J/mol×K	494.40	Joback Method
cpg	399.04	J/mol×K	522.90	Joback Method
cpg	414.06	J/mol×K	551.40	Joback Method
cpg	428.36	J/mol×K	579.89	Joback Method
cpg	441.97	J/mol×K	608.39	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R12917&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