Diamyl propyl amine

Other names: 1-Pentanamine, N-pentyl-N-propyl
Inchi: InChI=1S/C13H29N/c1-4-7-9-12-14(11-6-3)13-10-8-5-2/h4-13H2,1-3H3
InchiKey: DQCCZIHHKAGIHK-UHFFFAOYSA-N
Formula: C13H29N
SMILES: CCCCCN(CCC)CCCCC
Mol. weight [g/mol]: 199.38

Physical Properties

Property code	Value	Unit	Source
gf	169.36	kJ/mol	Joback Method
hf	-244.12	kJ/mol	Joback Method
hfus	32.45	kJ/mol	Joback Method
hvap	46.58	kJ/mol	Joback Method
log10ws	-3.83		Crippen Method
logp	4.079		Crippen Method
mcvol	204.010	ml/mol	McGowan Method
pc	1641.76	kPa	Joback Method
rinpol	1263.00		NIST Webbook
rinpol	1256.40		NIST Webbook
rinpol	1263.00		NIST Webbook
tb	509.28	K	Joback Method
tc	668.43	K	Joback Method
tf	268.74	K	Joback Method
vc	0.781	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	491.85	J/mol×K	509.28	Joback Method
cpg	509.86	J/mol×K	535.80	Joback Method
cpg	527.16	J/mol×K	562.33	Joback Method
cpg	543.77	J/mol×K	588.85	Joback Method
cpg	559.71	J/mol×K	615.38	Joback Method
cpg	575.00	J/mol×K	641.90	Joback Method

cpg	589.66	J/mol×K	668.43	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=R19206&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