Cyclohexanamine, N,N-dipropyl

Inchi: InChI=1S/C12H25N/c1-3-10-13(11-4-2)12-8-6-5-7-9-12/h12H,3-11H2,1-2H3
InchiKey: JONZUVQOOJCVFT-UHFFFAOYSA-N
Formula: C12H25N
SMILES: CCCN(CCC)C1CCCCC1
Mol. weight [g/mol]: 183.33

Physical Properties

Property code	Value	Unit	Source
gf	185.39	kJ/mol	Joback Method
hf	-169.16	kJ/mol	Joback Method
hfus	21.69	kJ/mol	Joback Method
hvap	44.78	kJ/mol	Joback Method
log10ws	-3.42		Crippen Method
logp	3.441		Crippen Method
mcvol	179.060	ml/mol	McGowan Method
pc	2129.52	kPa	Joback Method
rinpol	1267.00		NIST Webbook
tb	505.95	K	Joback Method
tc	695.90	K	Joback Method
tf	264.85	K	Joback Method
vc	0.658	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	431.43	J/mol×K	505.95	Joback Method
cpg	452.87	J/mol×K	537.61	Joback Method
cpg	473.25	J/mol×K	569.27	Joback Method
cpg	492.58	J/mol×K	600.92	Joback Method
cpg	510.91	J/mol×K	632.58	Joback Method
cpg	528.27	J/mol×K	664.24	Joback Method
cpg	544.70	J/mol×K	695.90	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R12935&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