Cyclopentanamine, 2-methyl-

Inchi: InChI=1S/C6H13N/c1-5-3-2-4-6(5)7/h5-6H,2-4,7H2,1H3
InchiKey: TYDMZADCGUWTCH-UHFFFAOYSA-N
Formula: C6H13N
SMILES: CC1CCCC1N
Mol. weight [g/mol]: 99.17
CAS: 41223-14-7

Physical Properties

Property code	Value	Unit	Source
gf	94.93	kJ/mol	Joback Method
hf	-93.24	kJ/mol	Joback Method
hfus	11.50	kJ/mol	Joback Method
hvap	39.54	kJ/mol	Joback Method
log10ws	-1.53		Crippen Method
logp	1.134		Crippen Method
mcvol	94.520	ml/mol	McGowan Method
pc	3955.54	kPa	Joback Method
rinpol	812.00		NIST Webbook
tb	419.82	K	Joback Method
tc	631.37	K	Joback Method
tf	247.30	K	Joback Method
vc	0.341	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	192.87	J/mol×K	419.82	Joback Method
cpg	207.77	J/mol×K	455.08	Joback Method
cpg	221.91	J/mol×K	490.34	Joback Method
cpg	235.31	J/mol×K	525.59	Joback Method
cpg	248.00	J/mol×K	560.85	Joback Method
cpg	259.99	J/mol×K	596.11	Joback Method
cpg	271.31	J/mol×K	631.37	Joback Method

Sources

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=C41223147&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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