Cyclopentanemethanol, 1-amino-

Other names:	1-Aminocyclopentanemethanol
	Amino-1 methylol-1 cyclopentane
	1-Amino-1-cyclopentanemethanol
Inchi:	InChI=1S/C6H13NO/c7-6(5-8)3-1-2-4-6/h8H,1-5,7H2
InchiKey:	PDNZJLMPXLQDPL-UHFFFAOYSA-N
Formula:	C6H13NO
SMILES:	NC1(CO)CCCC1
Mol. weight [g/mol]:	115.17
CAS:	10316-79-7

Physical Properties

Property code	Value	Unit	Source
gf	-39.67	kJ/mol	Joback Method
hf	-209.89	kJ/mol	Joback Method
hfus	8.22	kJ/mol	Joback Method
hvap	55.38	kJ/mol	Joback Method
log10ws	-1.04		Crippen Method
logp	0.250		Crippen Method
mcvol	100.390	ml/mol	McGowan Method
pc	4959.33	kPa	Joback Method
tb	516.91	K	Joback Method
tc	724.20	K	Joback Method
tf	431.50 ± 0.50	K	NIST Webbook
vc	0.358	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	244.76	J/mol×K	516.91	Joback Method
cpg	256.66	J/mol×K	551.46	Joback Method
cpg	267.74	J/mol×K	586.01	Joback Method
cpg	278.10	J/mol×K	620.56	Joback Method
cpg	287.84	J/mol×K	655.10	Joback Method
cpg	297.08	J/mol×K	689.65	Joback Method

cpg	305.91	J/mol×K	724.20	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	360.20	K	1.30	NIST Webbook
tbrp	341.50 ± 0.50	K	0.10	NIST Webbook

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=C10316797&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
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume