Cyclopentanamine, N-ethyl-

Other names:	Cyclopentylethylamine
	N-Ethylcyclopentylamine
	Cycloamyl-ethyl-amine
Inchi:	InChI=1S/C7H15N/c1-2-8-7-5-3-4-6-7/h7-8H,2-6H2,1H3
InchiKey:	SRTHFWNTKVOSBA-UHFFFAOYSA-N
Formula:	C7H15N
SMILES:	CCNC1CCCC1
Mol. weight [g/mol]:	113.20
CAS:	45592-46-9

Physical Properties

Property code	Value	Unit	Source
gf	134.00	kJ/mol	Joback Method
hf	-73.86	kJ/mol	Joback Method
hfus	12.92	kJ/mol	Joback Method
hvap	37.87	kJ/mol	Joback Method
log10ws	-1.95		Crippen Method
logp	1.538		Crippen Method
mcvol	108.610	ml/mol	McGowan Method
pc	3472.45	kPa	Joback Method
rinpol	891.00		NIST Webbook
tb	425.01	K	Joback Method
tc	623.61	K	Joback Method
tf	232.21	K	Joback Method
vc	0.404	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	220.54	J/mol×K	425.01	Joback Method
cpg	236.35	J/mol×K	458.11	Joback Method
cpg	251.35	J/mol×K	491.21	Joback Method
cpg	265.58	J/mol×K	524.31	Joback Method
cpg	279.06	J/mol×K	557.41	Joback Method

cpg	291.83	J/mol×K	590.51	Joback Method
cpg	303.90	J/mol×K	623.61	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=C45592469&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