1-Amino-1-cyclopropylethane

Inchi: InChI=1S/C5H11N/c1-4(6)5-2-3-5/h4-5H,2-3,6H2,1H3
InchiKey: IXCXVGWKYIDNOS-UHFFFAOYSA-N
Formula: C5H11N
SMILES: CC(N)C1CC1
Mol. weight [g/mol]: 85.15
CAS: 1621-24-5

Physical Properties

Property code	Value	Unit	Source
chl	-3478.00	kJ/mol	NIST Webbook
gf	115.98	kJ/mol	Joback Method
hf	-45.22	kJ/mol	Joback Method
hfus	8.51	kJ/mol	Joback Method
hvap	36.89	kJ/mol	Joback Method
log10ws	-1.11		Crippen Method
logp	0.744		Crippen Method
mcvol	80.430	ml/mol	McGowan Method
pc	4426.72	kPa	Joback Method
tb	392.63	K	Joback Method
tc	594.55	K	Joback Method
tf	232.31	K	Joback Method
vc	0.295	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	156.96	J/mol×K	392.63	Joback Method
cpg	168.91	J/mol×K	426.28	Joback Method
cpg	180.16	J/mol×K	459.94	Joback Method
cpg	190.74	J/mol×K	493.59	Joback Method
cpg	200.68	J/mol×K	527.24	Joback Method
cpg	210.02	J/mol×K	560.89	Joback Method
cpg	218.80	J/mol×K	594.55	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1621245&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

chl:	Standard liquid enthalpy of combustion
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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume