1,2-Cyclobutane, bis-(methylamine)-

Inchi: InChI=1S/C6H14N2/c7-3-5-1-2-6(5)4-8/h5-6H,1-4,7-8H2
InchiKey: ZBLACDIKXKCJGF-UHFFFAOYSA-N
Formula: C6H14N2
SMILES: NCC1CCC1CN
Mol. weight [g/mol]: 114.19

Physical Properties

Property code	Value	Unit	Source
gf	173.48	kJ/mol	Joback Method
hf	-53.29	kJ/mol	Joback Method
hfus	18.80	kJ/mol	Joback Method
hvap	50.01	kJ/mol	Joback Method
log10ws	-0.61		Crippen Method
logp	-0.070		Crippen Method
mcvol	104.500	ml/mol	McGowan Method
pc	4119.70	kPa	Joback Method
tb	488.08	K	Joback Method
tc	704.18	K	Joback Method
tf	334.08	K	Joback Method
vc	0.378	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	250.89	J/mol×K	488.08	Joback Method
cpg	265.05	J/mol×K	524.10	Joback Method
cpg	278.40	J/mol×K	560.11	Joback Method
cpg	290.97	J/mol×K	596.13	Joback Method
cpg	302.80	J/mol×K	632.15	Joback Method
cpg	313.92	J/mol×K	668.17	Joback Method
cpg	324.36	J/mol×K	704.18	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=B6006704&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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume