2-Dimethylamino-3,3-dimethyl cyclobutane methylamine

Inchi: InChI=1S/C9H20N2/c1-9(2)5-7(6-10)8(9)11(3)4/h7-8H,5-6,10H2,1-4H3
InchiKey: XYWABILRSMHADD-UHFFFAOYSA-N
Formula: C9H20N2
SMILES: CN(C)C1C(CN)CC1(C)C
Mol. weight [g/mol]: 156.27
CAS: 19244-82-7

Physical Properties

Property code	Value	Unit	Source
gf	229.87	kJ/mol	Joback Method
hf	-86.57	kJ/mol	Joback Method
hfus	19.16	kJ/mol	Joback Method
hvap	46.63	kJ/mol	Joback Method
log10ws	-1.12		Crippen Method
logp	0.921		Crippen Method
mcvol	146.770	ml/mol	McGowan Method
pc	2790.61	kPa	Joback Method
tb	492.20	K	Joback Method
tc	693.62	K	Joback Method
tf	336.76	K	Joback Method
vc	0.531	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	357.72	J/mol×K	492.20	Joback Method
cpg	375.83	J/mol×K	525.77	Joback Method
cpg	392.82	J/mol×K	559.34	Joback Method
cpg	408.79	J/mol×K	592.91	Joback Method
cpg	423.84	J/mol×K	626.48	Joback Method
cpg	438.07	J/mol×K	660.05	Joback Method
cpg	451.59	J/mol×K	693.62	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=C19244827&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