2-Dimethylamino-3,3-dimethylcyclo-butanecarbox

Inchi: InChI=1S/C9H18N2O/c1-9(2)5-6(8(10)12)7(9)11(3)4/h6-7H,5H2,1-4H3,(H2,10,12)
InchiKey: DPGXRZYPRCIJLQ-UHFFFAOYSA-N
Formula: C9H18N2O
SMILES: CN(C)C1C(C(N)=O)CC1(C)C
Mol. weight [g/mol]: 170.25
CAS: 19244-93-0

Physical Properties

Property code	Value	Unit	Source
gf	100.95	kJ/mol	Joback Method
hf	-199.15	kJ/mol	Joback Method
hfus	20.76	kJ/mol	Joback Method
hvap	53.37	kJ/mol	Joback Method
log10ws	-0.89		Crippen Method
logp	0.448		Crippen Method
mcvol	148.340	ml/mol	McGowan Method
pc	2986.06	kPa	Joback Method
tb	546.07	K	Joback Method
tc	756.58	K	Joback Method
tf	386.69	K	Joback Method
vc	0.537	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	382.41	J/mol×K	546.07	Joback Method
cpg	398.94	J/mol×K	581.16	Joback Method
cpg	414.43	J/mol×K	616.24	Joback Method
cpg	429.00	J/mol×K	651.33	Joback Method
cpg	442.77	J/mol×K	686.41	Joback Method
cpg	455.85	J/mol×K	721.50	Joback Method
cpg	468.36	J/mol×K	756.58	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=C19244930&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