N,N-Dimethylcyclopropanecarboxamide

Inchi: InChI=1S/C6H11NO/c1-7(2)6(8)5-3-4-5/h5H,3-4H2,1-2H3
InchiKey: DVQLGAFYVKJEDE-UHFFFAOYSA-N
Formula: C6H11NO
SMILES: CN(C)C(=O)C1CC1
Mol. weight [g/mol]: 113.16
CAS: 17696-23-0

Physical Properties

Property code	Value	Unit	Source
gf	42.25	kJ/mol	Joback Method
hf	-139.42	kJ/mol	Joback Method
hfus	14.05	kJ/mol	Joback Method
hvap	37.65	kJ/mol	Joback Method
log10ws	-0.33		Crippen Method
logp	0.485		Crippen Method
mcvol	96.090	ml/mol	McGowan Method
pc	3891.64	kPa	Joback Method
tb	409.73	K	Joback Method
tc	600.80	K	Joback Method
tf	257.72	K	Joback Method
vc	0.352	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	189.49	J/mol×K	409.73	Joback Method
cpg	202.16	J/mol×K	441.58	Joback Method
cpg	214.08	J/mol×K	473.42	Joback Method
cpg	225.29	J/mol×K	505.27	Joback Method
cpg	235.83	J/mol×K	537.11	Joback Method
cpg	245.74	J/mol×K	568.96	Joback Method
cpg	255.04	J/mol×K	600.80	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	379.00 ± 1.00	K	3.30	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C17696230&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume