Cyclopropanecarboxamide

Other names: Cyclopropyl carboxamide
Carbamoylcyclopropane
Inchi: InChI=1S/C4H7NO/c5-4(6)3-1-2-3/h3H,1-2H2,(H2,5,6)
InchiKey: AIMMVWOEOZMVMS-UHFFFAOYSA-N
Formula: C4H7NO
SMILES: NC(=O)C1CC1
Mol. weight [g/mol]: 85.10
CAS: 6228-73-5

Physical Properties

Property code	Value	Unit	Source
gf	-18.92	kJ/mol	Joback Method
hf	-131.88	kJ/mol	Joback Method
hfus	11.05	kJ/mol	Joback Method
hvap	41.80	kJ/mol	Joback Method
log10ws	-0.36		Crippen Method
logp	-0.118		Crippen Method
mcvol	67.910	ml/mol	McGowan Method
pc	5470.75	kPa	Joback Method
tb	424.06	K	Joback Method
tc	636.48	K	Joback Method
tf	285.97	K	Joback Method
vc	0.252	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	135.59	J/mol×K	424.06	Joback Method
cpg	144.85	J/mol×K	459.46	Joback Method
cpg	153.49	J/mol×K	494.87	Joback Method
cpg	161.54	J/mol×K	530.27	Joback Method
cpg	169.04	J/mol×K	565.67	Joback Method
cpg	176.03	J/mol×K	601.07	Joback Method
cpg	182.54	J/mol×K	636.48	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C6228735&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

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