Cyclopropanecarboxamide, N-2-methylpropyl

Other names: Cyclopropanecarboxamide, N-isobutyl
Inchi: InChI=1S/C8H15NO/c1-6(2)5-9-8(10)7-3-4-7/h6-7H,3-5H2,1-2H3,(H,9,10)
InchiKey: HVDYZTLRQPWELN-UHFFFAOYSA-N
Formula: C8H15NO
SMILES: CC(C)CNC(=O)C1CC1
Mol. weight [g/mol]: 141.21
CAS: 122348-69-0

Physical Properties

Property code	Value	Unit	Source
gf	35.26	kJ/mol	Joback Method
hf	-200.04	kJ/mol	Joback Method
hfus	17.79	kJ/mol	Joback Method
hvap	46.11	kJ/mol	Joback Method
log10ws	-1.55		Crippen Method
logp	1.169		Crippen Method
mcvol	124.270	ml/mol	McGowan Method
pc	3184.73	kPa	Joback Method
rinpol	1249.00		NIST Webbook
tb	492.78	K	Joback Method
tc	689.34	K	Joback Method
tf	285.45	K	Joback Method
vc	0.475	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	287.90	J/mol×K	492.78	Joback Method
cpg	302.17	J/mol×K	525.54	Joback Method
cpg	315.62	J/mol×K	558.30	Joback Method
cpg	328.32	J/mol×K	591.06	Joback Method
cpg	340.29	J/mol×K	623.82	Joback Method
cpg	351.57	J/mol×K	656.58	Joback Method
cpg	362.20	J/mol×K	689.34	Joback Method

Sources

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=C122348690&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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