N-cyclopropylcyclopropanecarboxamide

Inchi: InChI=1S/C7H11NO/c9-7(5-1-2-5)8-6-3-4-6/h5-6H,1-4H2,(H,8,9)
InchiKey: HCCHMKIFYLZSOQ-UHFFFAOYSA-N
Formula: C7H11NO
SMILES: O=C(NC1CC1)C1CC1
Mol. weight [g/mol]: 125.17
CAS: 1453-50-5

Physical Properties

Property code	Value	Unit	Source
gf	90.03	kJ/mol	Joback Method
hf	-101.32	kJ/mol	Joback Method
hfus	16.85	kJ/mol	Joback Method
hvap	44.18	kJ/mol	Joback Method
log10ws	-1.38		Crippen Method
logp	0.675		Crippen Method
mcvol	99.320	ml/mol	McGowan Method
pc	4140.93	kPa	Joback Method
tb	477.08	K	Joback Method
tc	687.55	K	Joback Method
tf	307.12	K	Joback Method
vc	0.383	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	229.49	J/mol×K	477.08	Joback Method
cpg	243.53	J/mol×K	512.16	Joback Method
cpg	256.57	J/mol×K	547.24	Joback Method
cpg	268.66	J/mol×K	582.31	Joback Method
cpg	279.89	J/mol×K	617.39	Joback Method
cpg	290.33	J/mol×K	652.47	Joback Method
cpg	300.04	J/mol×K	687.55	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1453505&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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume