Cyclopropanecarboxamide, N-n-propyl

Other names:	N-Propylcyclopropanecarboxamide
	Cyclopropanecarboxamide, N-propyl
Inchi:	InChI=1S/C7H13NO/c1-2-5-8-7(9)6-3-4-6/h6H,2-5H2,1H3,(H,8,9)
InchiKey:	ATADNMCXCXUSOW-UHFFFAOYSA-N
Formula:	C7H13NO
SMILES:	CCCNC(=O)C1CC1
Mol. weight [g/mol]:	127.18
CAS:	26389-59-3

Physical Properties

Property code	Value	Unit	Source
gf	29.28	kJ/mol	Joback Method
hf	-174.12	kJ/mol	Joback Method
hfus	18.72	kJ/mol	Joback Method
hvap	44.27	kJ/mol	Joback Method
log10ws	-1.37		Crippen Method
logp	0.923		Crippen Method
mcvol	110.180	ml/mol	McGowan Method
pc	3526.27	kPa	Joback Method
rinpol	1197.00		NIST Webbook
tb	470.34	K	Joback Method
tc	664.97	K	Joback Method
tf	289.18	K	Joback Method
vc	0.425	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	244.33	J/mol×K	470.34	Joback Method
cpg	257.31	J/mol×K	502.78	Joback Method
cpg	269.55	J/mol×K	535.22	Joback Method
cpg	281.10	J/mol×K	567.65	Joback Method
cpg	292.00	J/mol×K	600.09	Joback Method
cpg	302.27	J/mol×K	632.53	Joback Method

cpg	311.95	J/mol×K	664.97	Joback Method

Sources

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=C26389593&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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