

Cyclopentene, 3-chloro-

Inchi:	InChI=1S/C5H7Cl/c6-5-3-1-2-4-5/h1,3,5H,2,4H2
InchiKey:	LPSWJRSLXCPGBK-UHFFFAOYSA-N
Formula:	C5H7Cl
SMILES:	C1C=CCC1
Mol. weight [g/mol]:	102.56
CAS:	96-40-2

Physical Properties

Property code	Value	Unit	Source
gf	45.80	kJ/mol	Joback Method
hf	-44.01	kJ/mol	Joback Method
hfus	8.06	kJ/mol	Joback Method
hvap	31.66	kJ/mol	Joback Method
log10ws	-1.93		Crippen Method
logp	1.944		Crippen Method
mvol	78.390	ml/mol	McGowan Method
pc	4333.96	kPa	Joback Method
rinpol	742.00		NIST Webbook
rinpol	742.00		NIST Webbook
tb	365.67	K	Joback Method
tc	573.57	K	Joback Method
tf	187.69	K	Joback Method
vc	0.291	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	117.47	J/molxK	365.67	Joback Method
cpg	128.29	J/molxK	400.32	Joback Method
cpg	138.47	J/molxK	434.97	Joback Method
cpg	148.06	J/molxK	469.62	Joback Method
cpg	157.06	J/molxK	504.27	Joback Method
cpg	165.52	J/molxK	538.92	Joback Method
cpg	173.44	J/molxK	573.57	Joback Method

dvisc	0.0023714	Paxs	187.69	Joback Method
dvisc	0.0013570	Paxs	217.35	Joback Method
dvisc	0.0008879	Paxs	247.02	Joback Method
dvisc	0.0006363	Paxs	276.68	Joback Method
dvisc	0.0004864	Paxs	306.34	Joback Method
dvisc	0.0003899	Paxs	336.01	Joback Method
dvisc	0.0003239	Paxs	365.67	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C96402&Units=SI

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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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