

(Chloromethyl)cyclopropane

Other names:	Cyclopropylmethyl chloride Cyclopropane, (chloromethyl)-
Inchi:	InChI=1S/C4H7Cl/c5-3-4-1-2-4/h4H,1-3H2
InchiKey:	ZVTQWXCKQTUVPY-UHFFFAOYSA-N
Formula:	C4H7Cl
SMILES:	C1CC1CC1
Mol. weight [g/mol]:	90.55
CAS:	5911-08-0

Physical Properties

Property code	Value	Unit	Source
gf	31.62	kJ/mol	Joback Method
hf	-68.83	kJ/mol	Joback Method
hfus	8.45	kJ/mol	Joback Method
hvap	28.80	kJ/mol	Joback Method
log10ws	-1.30		Crippen Method
logp	1.635		Crippen Method
mvol	68.600	ml/mol	McGowan Method
pc	4391.59	kPa	Joback Method
tb	361.00 ± 1.00	K	NIST Webbook
tb	361.20	K	NIST Webbook
tc	523.87	K	Joback Method
tf	182.70	K	Joback Method
vc	0.266	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	100.02	J/mol×K	335.09	Joback Method
cpg	109.15	J/mol×K	366.55	Joback Method
cpg	117.73	J/mol×K	398.02	Joback Method
cpg	125.80	J/mol×K	429.48	Joback Method
cpg	133.38	J/mol×K	460.94	Joback Method
cpg	140.49	J/mol×K	492.40	Joback Method

cpg	147.16	J/mol×K	523.87	Joback Method
dvisc	0.0007624	Paxs	182.70	Joback Method
dvisc	0.0006064	Paxs	208.10	Joback Method
dvisc	0.0005070	Paxs	233.50	Joback Method
dvisc	0.0004390	Paxs	258.89	Joback Method
dvisc	0.0003901	Paxs	284.29	Joback Method
dvisc	0.0003534	Paxs	309.69	Joback Method
dvisc	0.0003250	Paxs	335.09	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5911080&Units=SI
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

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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