Cyclohexene, 1-chloro-

Other names:	1-Chlorocyclohexene
	1-Chlorocyclohexene-1
	1-Chlorocyclohex-1-ene
Inchi:	InChI=1S/C6H9Cl/c7-6-4-2-1-3-5-6/h4H,1-3,5H2
InchiKey:	BUAKPITZELZWNI-UHFFFAOYSA-N
Formula:	C6H9Cl
SMILES:	ClC1=CCCCC1
Mol. weight [g/mol]:	116.59
CAS:	930-66-5

Physical Properties

Property code	Value	Unit	Source
gf	40.20	kJ/mol	Joback Method
hf	-61.94	kJ/mol	Joback Method
hfus	7.09	kJ/mol	Joback Method
hvap	35.03	kJ/mol	Joback Method
log10ws	-2.73		Crippen Method
logp	2.683		Crippen Method
mcvol	92.480	ml/mol	McGowan Method
pc	4046.64	kPa	Joback Method
rinpol	876.00		NIST Webbook
rinpol	894.00		NIST Webbook
rinpol	894.00		NIST Webbook
ripol	1177.00		NIST Webbook
ripol	1177.00		NIST Webbook
ripol	1177.00		NIST Webbook
tb	414.00 ± 4.00	K	NIST Webbook
tb	413.90 ± 3.00	K	NIST Webbook
tb	414.00 ± 4.00	K	NIST Webbook
tc	620.03	K	Joback Method
tf	212.20	K	Joback Method
vc	0.341	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	151.99	J/mol×K	402.47	Joback Method
cpg	206.91	J/mol×K	583.77	Joback Method
cpg	197.23	J/mol×K	547.51	Joback Method
cpg	186.92	J/mol×K	511.25	Joback Method
cpg	175.96	J/mol×K	474.99	Joback Method
cpg	164.32	J/mol×K	438.73	Joback Method
cpg	215.99	J/mol×K	620.03	Joback Method
dvisc	0.0003098	Pa×s	402.47	Joback Method
dvisc	0.0004059	Pa×s	370.76	Joback Method
dvisc	0.0005594	Pa×s	339.05	Joback Method
dvisc	0.0008238	Pa×s	307.33	Joback Method
dvisc	0.0013260	Pa×s	275.62	Joback Method
dvisc	0.0024158	Pa×s	243.91	Joback Method
dvisc	0.0052655	Pa×s	212.20	Joback Method

Sources

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
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C930665&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume