

3-Chloro-tetrahydrofuran

Other names:	Tetrahydrofuran, 3-chloro
Inchi:	InChI=1S/C4H7ClO/c5-4-1-2-6-3-4/h4H,1-3H2
InchiKey:	FPHNWFFKQCPXPI-UHFFFAOYSA-N
Formula:	C4H7ClO
SMILES:	C1C1CCOC1
Mol. weight [g/mol]:	106.55

Physical Properties

Property code	Value	Unit	Source
gf	-78.70	kJ/mol	Joback Method
hf	-213.15	kJ/mol	Joback Method
hfus	12.23	kJ/mol	Joback Method
hvap	33.65	kJ/mol	Joback Method
log10ws	-0.74		Crippen Method
logp	1.014		Crippen Method
mcpvol	74.470	ml/mol	McGowan Method
pc	4640.32	kPa	Joback Method
rinpol	830.00		NIST Webbook
rinpol	830.00		NIST Webbook
rinpol	830.00		NIST Webbook
tb	370.58	K	Joback Method
tc	578.66	K	Joback Method
tf	202.23	K	Joback Method
vc	0.271	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	120.30	J/mol×K	370.58	Joback Method
cpg	130.68	J/mol×K	405.26	Joback Method
cpg	140.50	J/mol×K	439.94	Joback Method
cpg	149.78	J/mol×K	474.62	Joback Method
cpg	158.53	J/mol×K	509.30	Joback Method
cpg	166.76	J/mol×K	543.98	Joback Method

cpg	174.51	J/molxK	578.66	Joback Method
dvisc	0.0040161	Paxs	202.23	Joback Method
dvisc	0.0022037	Paxs	230.29	Joback Method
dvisc	0.0013776	Paxs	258.35	Joback Method
dvisc	0.0009442	Paxs	286.40	Joback Method
dvisc	0.0006923	Paxs	314.46	Joback Method
dvisc	0.0005340	Paxs	342.52	Joback Method
dvisc	0.0004285	Paxs	370.58	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=R91155&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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