

1-chloropropyl chloroacetate

Other names:	1-Propanol, 1-chloro, chloroacetate
Inchi:	InChI=1S/C5H8Cl2O2/c1-2-4(7)9-5(8)3-6/h4H,2-3H2,1H3
InchiKey:	ZRRXOTKSAAOYGT-UHFFFAOYSA-N
Formula:	C5H8Cl2O2
SMILES:	CCC(Cl)OC(=O)CCl
Mol. weight [g/mol]:	171.02

Physical Properties

Property code	Value	Unit	Source
gf	-269.00	kJ/mol	Joback Method
hf	-428.09	kJ/mol	Joback Method
hfus	16.36	kJ/mol	Joback Method
hvap	44.26	kJ/mol	Joback Method
log10ws	-1.69		Crippen Method
logp	1.743		Crippen Method
mcvol	113.230	ml/mol	McGowan Method
pc	3388.08	kPa	Joback Method
ripol	1006.00		NIST Webbook
ripol	1011.00		NIST Webbook
ripol	1001.00		NIST Webbook
ripol	1027.00		NIST Webbook
ripol	1027.00		NIST Webbook
ripol	1032.00		NIST Webbook
ripol	1649.00		NIST Webbook
ripol	1606.00		NIST Webbook
ripol	1649.00		NIST Webbook
ripol	1631.00		NIST Webbook
ripol	1630.00		NIST Webbook
ripol	1634.00		NIST Webbook
ripol	1599.00		NIST Webbook
ripol	1606.00		NIST Webbook
tb	464.51	K	Joback Method
tc	661.42	K	Joback Method
tf	263.11	K	Joback Method
vc	0.431	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	209.55	J/molxK	464.51	Joback Method
cpg	247.49	J/molxK	628.60	Joback Method
cpg	240.59	J/molxK	595.78	Joback Method
cpg	233.34	J/molxK	562.97	Joback Method
cpg	225.76	J/molxK	530.15	Joback Method
cpg	217.82	J/molxK	497.33	Joback Method
cpg	254.06	J/molxK	661.42	Joback Method
dvisc	0.0003158	Paxs	464.51	Joback Method
dvisc	0.0004081	Paxs	430.94	Joback Method
dvisc	0.0005509	Paxs	397.38	Joback Method
dvisc	0.0007858	Paxs	363.81	Joback Method
dvisc	0.0012050	Paxs	330.24	Joback Method
dvisc	0.0020352	Paxs	296.68	Joback Method
dvisc	0.0039296	Paxs	263.11	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=R112515&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

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