Chloromethyl chloroacetate

Inchi: InChI=1S/C3H4Cl2O2/c4-1-3(6)7-2-5/h1-2H2
InchiKey: RGXOOYDUNWUMTN-UHFFFAOYSA-N
Formula: C3H4Cl2O2
SMILES: O=C(CCl)OCCl
Mol. weight [g/mol]: 142.97
CAS: 6135-23-5

Physical Properties

Property code	Value	Unit	Source
gf	-283.40	kJ/mol	Joback Method
hf	-381.53	kJ/mol	Joback Method
hfus	14.71	kJ/mol	Joback Method
hvap	40.20	kJ/mol	Joback Method
log10ws	-0.74		Crippen Method
logp	0.965		Crippen Method
mcvol	85.050	ml/mol	McGowan Method
pc	4249.61	kPa	Joback Method
rinpol	914.00		NIST Webbook
rinpol	869.00		NIST Webbook
rinpol	873.00		NIST Webbook
rinpol	903.00		NIST Webbook
ripol	1619.00		NIST Webbook
ripol	1664.00		NIST Webbook
ripol	1619.00		NIST Webbook
ripol	1664.00		NIST Webbook
ripol	1637.00		NIST Webbook
ripol	1637.00		NIST Webbook
ripol	1637.00		NIST Webbook
ripol	1614.00		NIST Webbook
tb	419.19	K	Joback Method
tc	615.80	K	Joback Method
tf	255.57	K	Joback Method
vc	0.326	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	136.89	J/mol×K	419.19	Joback Method
cpg	141.97	J/mol×K	451.96	Joback Method
cpg	146.88	J/mol×K	484.73	Joback Method
cpg	151.62	J/mol×K	517.50	Joback Method
cpg	156.17	J/mol×K	550.27	Joback Method
cpg	160.54	J/mol×K	583.04	Joback Method
cpg	164.73	J/mol×K	615.80	Joback Method
dvisc	0.0027403	Pa×s	255.57	Joback Method
dvisc	0.0016756	Pa×s	282.84	Joback Method
dvisc	0.0011172	Pa×s	310.11	Joback Method
dvisc	0.0007953	Pa×s	337.38	Joback Method
dvisc	0.0005957	Pa×s	364.65	Joback Method
dvisc	0.0004645	Pa×s	391.92	Joback Method
dvisc	0.0003741	Pa×s	419.19	Joback Method

Sources

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=C6135235&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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