2-Chloroethyl ethyl carbonate

Inchi: InChI=1S/C5H9ClO3/c1-2-8-5(7)9-4-3-6/h2-4H2,1H3
InchiKey: SEEYHRCMNMPHDG-UHFFFAOYSA-N
Formula: C5H9ClO3
SMILES: CCOC(=O)OCCCl
Mol. weight [g/mol]: 152.58

Physical Properties

Property code	Value	Unit	Source
gf	-359.63	kJ/mol	Joback Method
hf	-539.29	kJ/mol	Joback Method
hfus	16.88	kJ/mol	Joback Method
hvap	42.67	kJ/mol	Joback Method
log10ws	-1.00		Crippen Method
logp	1.398		Crippen Method
mcvol	106.860	ml/mol	McGowan Method
pc	3435.91	kPa	Joback Method
rinpol	1004.00		NIST Webbook
rinpol	1004.00		NIST Webbook
tb	449.94	K	Joback Method
tc	635.36	K	Joback Method
tf	270.42	K	Joback Method
vc	0.406	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	207.39	J/mol×K	449.94	Joback Method
cpg	215.59	J/mol×K	480.84	Joback Method
cpg	223.57	J/mol×K	511.75	Joback Method
cpg	231.31	J/mol×K	542.65	Joback Method
cpg	238.81	J/mol×K	573.55	Joback Method
cpg	246.06	J/mol×K	604.45	Joback Method
cpg	253.04	J/mol×K	635.36	Joback Method
dvisc	0.0022644	Pa×s	270.42	Joback Method

dvisc	0.0013308	Pa×s	300.34	Joback Method
dvisc	0.0008611	Pa×s	330.26	Joback Method
dvisc	0.0005990	Pa×s	360.18	Joback Method
dvisc	0.0004406	Pa×s	390.10	Joback Method
dvisc	0.0003385	Pa×s	420.02	Joback Method
dvisc	0.0002694	Pa×s	449.94	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U373774&Units=SI
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

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