10-Chlorodecyl ethyl carbonate

Inchi: InChI=1S/C13H25ClO3/c1-2-16-13(15)17-12-10-8-6-4-3-5-7-9-11-14/h2-12H2,1H3
InchiKey: RCJVEQGSPNMRBB-UHFFFAOYSA-N
Formula: C13H25ClO3
SMILES: CCOC(=O)OCCCCCCCCCCCl
Mol. weight [g/mol]: 264.79

Physical Properties

Property code	Value	Unit	Source
gf	-292.27	kJ/mol	Joback Method
hf	-704.41	kJ/mol	Joback Method
hfus	37.60	kJ/mol	Joback Method
hvap	60.48	kJ/mol	Joback Method
log10ws	-4.34		Crippen Method
logp	4.519		Crippen Method
mcvol	219.580	ml/mol	McGowan Method
pc	1633.81	kPa	Joback Method
rinpol	1856.00		NIST Webbook
rinpol	1856.00		NIST Webbook
tb	632.98	K	Joback Method
tc	806.36	K	Joback Method
tf	360.58	K	Joback Method
vc	0.855	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	576.08	J/mol×K	632.98	Joback Method
cpg	591.52	J/mol×K	661.88	Joback Method
cpg	606.29	J/mol×K	690.77	Joback Method
cpg	620.41	J/mol×K	719.67	Joback Method
cpg	633.88	J/mol×K	748.57	Joback Method
cpg	646.70	J/mol×K	777.47	Joback Method
cpg	658.88	J/mol×K	806.36	Joback Method
dvisc	0.0017014	Pa×s	360.58	Joback Method

dvisc	0.0008610	Pa×s	405.98	Joback Method
dvisc	0.0004997	Pa×s	451.38	Joback Method
dvisc	0.0003203	Pa×s	496.78	Joback Method
dvisc	0.0002212	Pa×s	542.18	Joback Method
dvisc	0.0001618	Pa×s	587.58	Joback Method
dvisc	0.0001237	Pa×s	632.98	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=U373787&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