1-Acetoxy-2-(2-chloroethoxy)ethane

Other names: 5-chloro-3-oxapentyl acetate
Inchi: InChI=1S/C6H11ClO3/c1-6(8)10-5-4-9-3-2-7/h2-5H2,1H3
InchiKey: ZUZWLUYOVJTJAG-UHFFFAOYSA-N
Formula: C6H11ClO3
SMILES: CC(=O)OCCOCCCl
Mol. weight [g/mol]: 166.60
CAS: 14258-40-3

Physical Properties

Property code	Value	Unit	Source
gf	-351.21	kJ/mol	Joback Method
hf	-559.93	kJ/mol	Joback Method
hfus	19.47	kJ/mol	Joback Method
hvap	44.90	kJ/mol	Joback Method
log10ws	-0.44		Crippen Method
logp	0.805		Crippen Method
mcvol	120.950	ml/mol	McGowan Method
pc	3079.57	kPa	Joback Method
tb	472.82	K	Joback Method
tc	656.45	K	Joback Method
tf	281.69	K	Joback Method
vc	0.463	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	246.58	J/mol×K	472.82	Joback Method
cpg	256.09	J/mol×K	503.42	Joback Method
cpg	265.30	J/mol×K	534.03	Joback Method
cpg	274.20	J/mol×K	564.63	Joback Method
cpg	282.80	J/mol×K	595.24	Joback Method
cpg	291.08	J/mol×K	625.84	Joback Method
cpg	299.02	J/mol×K	656.45	Joback Method
dvisc	0.0022866	Pa×s	281.69	Joback Method

dvisc	0.0013135	Pa×s	313.55	Joback Method
dvisc	0.0008357	Pa×s	345.40	Joback Method
dvisc	0.0005739	Pa×s	377.25	Joback Method
dvisc	0.0004179	Pa×s	409.11	Joback Method
dvisc	0.0003186	Pa×s	440.97	Joback Method
dvisc	0.0002519	Pa×s	472.82	Joback Method

Sources

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=C14258403&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume