3-[(2,2-Dichloropropanoyl)oxy]-2,2-bis([(2,2-dichlo
2,2-dichloropropanoate

Inchi: InChI=1S/C17H20Cl8O8/c1-13(18,19)9(26)30-5-17(6-31-10(27)14(2,20)21,7-32-11(28)15

InchiKey: WOKUVVRQHHYMGQ-UHFFFAOYSA-N

Formula: C17H20Cl8O8

SMILES: CC(Cl)(Cl)C(=O)OCC(COC(=O)C(C)(Cl)Cl)(COC(=O)C(C)(Cl)Cl)COC(=O)C(C)(Cl)Cl

Mol. weight [g/mol]: 635.96

CAS: 116295-67-1

Physical Properties

Property code	Value	Unit	Source
gf	-924.66	kJ/mol	Joback Method
hf	-1543.08	kJ/mol	Joback Method
hfus	47.44	kJ/mol	Joback Method
hvap	118.66	kJ/mol	Joback Method
log10ws	-5.80		Crippen Method
logp	4.921		Crippen Method
mcvol	378.070	ml/mol	McGowan Method
pc	1216.59	kPa	Joback Method
tb	1176.81	K	Joback Method
tc	1441.08	K	Joback Method
tf	821.45	K	Joback Method
vc	1.421	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1033.26	J/mol×K	1176.81	Joback Method
cpg	1040.03	J/mol×K	1220.86	Joback Method
cpg	1046.57	J/mol×K	1264.90	Joback Method
cpg	1053.07	J/mol×K	1308.95	Joback Method
cpg	1059.72	J/mol×K	1352.99	Joback Method
cpg	1066.70	J/mol×K	1397.04	Joback Method
cpg	1074.21	J/mol×K	1441.08	Joback Method
dvisc	0.0000153	Pa×s	821.45	Joback Method
dvisc	0.0000094	Pa×s	880.68	Joback Method

dvisc	0.0000061	Pa×s	939.90	Joback Method
dvisc	0.0000042	Pa×s	999.13	Joback Method
dvisc	0.0000030	Pa×s	1058.36	Joback Method
dvisc	0.0000022	Pa×s	1117.58	Joback Method
dvisc	0.0000017	Pa×s	1176.81	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=C116295671&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume