

3,5-Dichloro-2-[(2,2-dichloropropanoyl)oxy]benzyl 2,2-dichloropropanoate

InChI=1S/C13H10Cl6O4/c1-12(16,17)10(20)22-5-6-3-7(14)4-8(15)9(6)23-11(21)13(2,18)
InChIKey: OTQBBVDDVNXYOT-UHFFFAOYSA-N
Formula: C13H10Cl6O4
SMILES: CC(Cl)(Cl)C(=O)OCc1cc(Cl)cc(Cl)c1OC(=O)C(C)(Cl)Cl
Mol. weight [g/mol]: 442.93
CAS: 108878-18-8

Physical Properties

Property code	Value	Unit	Source
gf	-391.64	kJ/mol	Joback Method
hf	-711.07	kJ/mol	Joback Method
hfus	38.23	kJ/mol	Joback Method
hvap	90.82	kJ/mol	Joback Method
log10ws	-6.40		Crippen Method
logp	5.330		Crippen Method
mcvol	258.590	ml/mol	McGowan Method
pc	1937.24	kPa	Joback Method
tb	909.16	K	Joback Method
tc	1156.84	K	Joback Method
tf	628.93	K	Joback Method
vc	0.976	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	614.84	J/molxK	909.16	Joback Method
cpg	622.22	J/molxK	950.44	Joback Method
cpg	628.75	J/molxK	991.72	Joback Method
cpg	634.49	J/molxK	1033.00	Joback Method
cpg	639.51	J/molxK	1074.28	Joback Method
cpg	643.89	J/molxK	1115.56	Joback Method
cpg	647.69	J/molxK	1156.84	Joback Method
dvisc	0.0002194	Paxs	628.93	Joback Method
dvisc	0.0001467	Paxs	675.64	Joback Method

dvisc	0.0001034	Paxs	722.34	Joback Method
dvisc	0.0000760	Paxs	769.05	Joback Method
dvisc	0.0000579	Paxs	815.75	Joback Method
dvisc	0.0000454	Paxs	862.46	Joback Method
dvisc	0.0000365	Paxs	909.16	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C108878188&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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