

# 2,5-Dichloro-3,4,6-tris[(2,2-dichloropropanoyl)oxy]

InChI: ClC(Cl)C(=O)Oc1c(Cl)c(OC(=O)C(C)(Cl)Cl)c(OC(=O)C(C)(Cl)Cl)c(Cl)c1OC(=O)C(C)(Cl)Cl  
InChIKey: ORHLVMMKMXLUHL-UHFFFAOYSA-N

Formula: C18H12Cl10O8  
SMILES: CC(Cl)(Cl)C(=O)Oc1c(Cl)c(OC(=O)C(C)(Cl)Cl)c(OC(=O)C(C)(Cl)Cl)c(Cl)c1OC(=O)C(C)(Cl)Cl  
Mol. weight [g/mol]: 710.81  
CAS: 109593-91-1

## Physical Properties

Property code	Value	Unit	Source
gf	-878.68	kJ/mol	Joback Method
hf	-1407.27	kJ/mol	Joback Method
hfus	57.93	kJ/mol	Joback Method
hvap	136.54	kJ/mol	Joback Method
log10ws	-9.42		Crippen Method
logp	7.390		Crippen Method
mvol	392.880	ml/mol	McGowan Method
pc	1275.51	kPa	Joback Method
tb	1329.36	K	Joback Method
tc	1627.74	K	Joback Method
tf	979.16	K	Joback Method
vc	1.478	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	961.18	J/molxK	1329.36	Joback Method
cpg	961.96	J/molxK	1379.09	Joback Method
cpg	962.32	J/molxK	1428.82	Joback Method
cpg	962.40	J/molxK	1478.55	Joback Method
cpg	962.39	J/molxK	1528.28	Joback Method
cpg	962.44	J/molxK	1578.01	Joback Method
cpg	962.73	J/molxK	1627.74	Joback Method
dvisc	0.0000072	Paxs	979.16	Joback Method
dvisc	0.0000051	Paxs	1037.53	Joback Method

dvisc	0.0000038	Paxs	1095.89	Joback Method
dvisc	0.0000029	Paxs	1154.26	Joback Method
dvisc	0.0000022	Paxs	1212.63	Joback Method
dvisc	0.0000018	Paxs	1270.99	Joback Method
dvisc	0.0000015	Paxs	1329.36	Joback Method

## Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C109593911&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C109593911&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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