

# 3-(2,4,5-Trichlorophenoxy)-1,2-propanediol bis-(2,2-dichloropropionate)

<b>Inchi:</b>	InChI=1S/C15H13Cl7O5/c1-14(19,20)12(23)26-6-7(27-13(24)15(2,21)22)5-25-11-4-9(17)
<b>InchiKey:</b>	KKLFMUOVHGJHOX-UHFFFAOYSA-N
<b>Formula:</b>	C15H13Cl7O5
<b>SMILES:</b>	CC(Cl)(Cl)C(=O)OCC(COc1cc(Cl)c(Cl)cc1Cl)OC(=O)C(C)(Cl)Cl
<b>Mol. weight [g/mol]:</b>	521.43
<b>CAS:</b>	101096-60-0

## Physical Properties

Property code	Value	Unit	Source
gf	-494.17	kJ/mol	Joback Method
hf	-905.59	kJ/mol	Joback Method
hfus	45.27	kJ/mol	Joback Method
hvap	101.68	kJ/mol	Joback Method
log10ws	-6.66		Crippen Method
logp	5.868		Crippen Method
mcvol	304.880	ml/mol	McGowan Method
pc	1587.28	kPa	Joback Method
tb	1014.33	K	Joback Method
tc	1261.62	K	Joback Method
tf	688.62	K	Joback Method
vc	1.149	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	762.88	J/molxK	1014.33	Joback Method
cpg	769.15	J/molxK	1055.54	Joback Method
cpg	774.44	J/molxK	1096.76	Joback Method
cpg	778.79	J/molxK	1137.97	Joback Method
cpg	782.26	J/molxK	1179.19	Joback Method
cpg	784.93	J/molxK	1220.40	Joback Method
cpg	786.84	J/molxK	1261.62	Joback Method
dvisc	0.0000987	Paxs	688.62	Joback Method
dvisc	0.0000633	Paxs	742.90	Joback Method

dvisc	0.0000432	Paxs	797.19	Joback Method
dvisc	0.0000309	Paxs	851.48	Joback Method
dvisc	0.0000230	Paxs	905.76	Joback Method
dvisc	0.0000177	Paxs	960.05	Joback Method
dvisc	0.0000141	Paxs	1014.33	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<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=C101096600&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C101096600&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>mccvol:</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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