

# 1,3-Dichloroisopropyl isopentanoate

<b>Inchi:</b>	InChI=1S/C8H14Cl2O2/c1-6(2)4-7(11)12-8(3,10)5-9/h6H,4-5H2,1-3H3
<b>InchiKey:</b>	HOYDHGBXJGTXGW-UHFFFAOYSA-N
<b>Formula:</b>	C8H14Cl2O2
<b>SMILES:</b>	CC(C)CC(=O)OC(C)(Cl)CCl
<b>Mol. weight [g/mol]:</b>	213.10

## Physical Properties

Property code	Value	Unit	Source
gf	-240.90	kJ/mol	Joback Method
hf	-498.76	kJ/mol	Joback Method
hfus	16.72	kJ/mol	Joback Method
hvap	49.64	kJ/mol	Joback Method
log10ws	-2.71		Crippen Method
logp	2.769		Crippen Method
mcvol	155.500	ml/mol	McGowan Method
pc	2532.82	kPa	Joback Method
rinpol	1252.00		NIST Webbook
rinpol	1252.00		NIST Webbook
tb	529.92	K	Joback Method
tc	731.23	K	Joback Method
tf	299.34	K	Joback Method
vc	0.589	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	338.15	J/molxK	529.92	Joback Method
cpg	393.82	J/molxK	697.68	Joback Method
cpg	383.99	J/molxK	664.13	Joback Method
cpg	373.54	J/molxK	630.58	Joback Method
cpg	362.43	J/molxK	597.02	Joback Method
cpg	350.64	J/molxK	563.47	Joback Method
cpg	403.04	J/molxK	731.23	Joback Method
dvisc	0.0002269	Paxs	529.92	Joback Method

dvisc	0.0003072	Paxs	491.49	Joback Method
dvisc	0.0004378	Paxs	453.06	Joback Method
dvisc	0.0006663	Paxs	414.63	Joback Method
dvisc	0.0011049	Paxs	376.20	Joback Method
dvisc	0.0020557	Paxs	337.77	Joback Method
dvisc	0.0044860	Paxs	299.34	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=R150260&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R150260&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>

## 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>rinpol:</b>	Non-polar retention indices
<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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