

# 1,3-Dichloroisopropyl nonanoate

<b>Inchi:</b>	InChI=1S/C12H22Cl2O2/c1-3-4-5-6-7-8-9-11(15)16-12(2,14)10-13/h3-10H2,1-2H3
<b>InchiKey:</b>	PQYSXGKADZLVDO-UHFFFAOYSA-N
<b>Formula:</b>	C12H22Cl2O2
<b>SMILES:</b>	CCCCCCCCC(=O)OC(C)(Cl)CCl
<b>Mol. weight [g/mol]:</b>	269.21

## Physical Properties

Property code	Value	Unit	Source
gf	-204.78	kJ/mol	Joback Method
hf	-576.04	kJ/mol	Joback Method
hfus	30.60	kJ/mol	Joback Method
hvap	58.94	kJ/mol	Joback Method
log10ws	-4.62		Crippen Method
logp	4.474		Crippen Method
mvol	211.860	ml/mol	McGowan Method
pc	1766.90	kPa	Joback Method
rinpol	1710.00		NIST Webbook
rinpol	1710.00		NIST Webbook
tb	621.88	K	Joback Method
tc	809.59	K	Joback Method
tf	359.42	K	Joback Method
vc	0.819	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	530.06	J/molxK	621.88	Joback Method
cpg	597.01	J/molxK	778.31	Joback Method
cpg	585.08	J/molxK	747.02	Joback Method
cpg	572.45	J/molxK	715.74	Joback Method
cpg	559.09	J/molxK	684.45	Joback Method
cpg	544.97	J/molxK	653.17	Joback Method
cpg	608.27	J/molxK	809.59	Joback Method
dvisc	0.0001438	Paxs	621.88	Joback Method

dvisc	0.0001923	Paxs	578.14	Joback Method
dvisc	0.0002698	Paxs	534.39	Joback Method
dvisc	0.0004021	Paxs	490.65	Joback Method
dvisc	0.0006480	Paxs	446.91	Joback Method
dvisc	0.0011582	Paxs	403.16	Joback Method
dvisc	0.0023843	Paxs	359.42	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=R150275&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R150275&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>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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