

# 1,3-Dichloroisopropyl octanoate

<b>Inchi:</b>	InChI=1S/C11H20Cl2O2/c1-3-4-5-6-7-8-10(14)15-11(2,13)9-12/h3-9H2,1-2H3
<b>InchiKey:</b>	KRSMHCZRTSQGKM-UHFFFAOYSA-N
<b>Formula:</b>	C11H20Cl2O2
<b>SMILES:</b>	CCCCCCCC(=O)OC(C)(Cl)CCl
<b>Mol. weight [g/mol]:</b>	255.18

## Physical Properties

Property code	Value	Unit	Source
gf	-213.20	kJ/mol	Joback Method
hf	-555.40	kJ/mol	Joback Method
hfus	28.01	kJ/mol	Joback Method
hvap	56.71	kJ/mol	Joback Method
log10ws	-4.20		Crippen Method
logp	4.084		Crippen Method
mcvol	197.770	ml/mol	McGowan Method
pc	1918.62	kPa	Joback Method
rinpol	1611.00		NIST Webbook
rinpol	1611.00		NIST Webbook
tb	599.00	K	Joback Method
tc	788.73	K	Joback Method
tf	348.15	K	Joback Method
vc	0.762	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	479.60	J/molxK	599.00	Joback Method
cpg	493.95	J/molxK	630.62	Joback Method
cpg	507.54	J/molxK	662.24	Joback Method
cpg	520.40	J/molxK	693.87	Joback Method
cpg	532.54	J/molxK	725.49	Joback Method
cpg	544.01	J/molxK	757.11	Joback Method
cpg	554.82	J/molxK	788.73	Joback Method
dvisc	0.0026101	Paxs	348.15	Joback Method

dvisc	0.0012864	Paxs	389.96	Joback Method
dvisc	0.0007271	Paxs	431.77	Joback Method
dvisc	0.0004545	Paxs	473.57	Joback Method
dvisc	0.0003066	Paxs	515.38	Joback Method
dvisc	0.0002195	Paxs	557.19	Joback Method
dvisc	0.0001646	Paxs	599.00	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R150280&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R150280&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>
<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>

## 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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