

# 1,3-Dichloroisopropyl heptanoate

<b>Inchi:</b>	InChI=1S/C10H18Cl2O2/c1-3-4-5-6-7-9(13)14-10(2,12)8-11/h3-8H2,1-2H3
<b>InchiKey:</b>	FPZTZMYOEFDHBQ-UHFFFAOYSA-N
<b>Formula:</b>	C10H18Cl2O2
<b>SMILES:</b>	CCCCCCC(=O)OC(C)(Cl)CCl
<b>Mol. weight [g/mol]:</b>	241.16

## Physical Properties

Property code	Value	Unit	Source
gf	-221.62	kJ/mol	Joback Method
hf	-534.76	kJ/mol	Joback Method
hfus	25.42	kJ/mol	Joback Method
hvap	54.48	kJ/mol	Joback Method
log10ws	-3.78		Crippen Method
logp	3.694		Crippen Method
mcvol	183.680	ml/mol	McGowan Method
pc	2090.75	kPa	Joback Method
rinpol	1512.00		NIST Webbook
rinpol	1512.00		NIST Webbook
tb	576.12	K	Joback Method
tc	768.12	K	Joback Method
tf	336.88	K	Joback Method
vc	0.707	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	430.68	J/molxK	576.12	Joback Method
cpg	444.40	J/molxK	608.12	Joback Method
cpg	457.38	J/molxK	640.12	Joback Method
cpg	469.65	J/molxK	672.12	Joback Method
cpg	481.24	J/molxK	704.12	Joback Method
cpg	492.18	J/molxK	736.12	Joback Method
cpg	502.48	J/molxK	768.12	Joback Method
dvisc	0.0028380	Paxs	336.88	Joback Method

dvisc	0.0014203	Paxs	376.75	Joback Method
dvisc	0.0008115	Paxs	416.63	Joback Method
dvisc	0.0005113	Paxs	456.50	Joback Method
dvisc	0.0003469	Paxs	496.37	Joback Method
dvisc	0.0002494	Paxs	536.25	Joback Method
dvisc	0.0001877	Paxs	576.12	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R150235&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R150235&amp;Units=SI</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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