

# Acetic acid, trichloro, 1,2-dimethylpropyl ester

<b>Inchi:</b>	InChI=1S/C7H11Cl3O2/c1-4(2)5(3)12-6(11)7(8,9)10/h4-5H,1-3H3
<b>InchiKey:</b>	DLGMINPBZKHLST-UHFFFAOYSA-N
<b>Formula:</b>	C7H11Cl3O2
<b>SMILES:</b>	CC(C)C(C)OC(=O)C(Cl)(Cl)Cl
<b>Mol. weight [g/mol]:</b>	233.52

## Physical Properties

Property code	Value	Unit	Source
gf	-263.69	kJ/mol	Joback Method
hf	-499.14	kJ/mol	Joback Method
hfus	14.80	kJ/mol	Joback Method
hvap	51.41	kJ/mol	Joback Method
log10ws	-3.05		Crippen Method
logp	2.944		Crippen Method
mcvol	153.650	ml/mol	McGowan Method
pc	2712.67	kPa	Joback Method
rinpol	1163.00		NIST Webbook
rinpol	1163.00		NIST Webbook
ripol	1446.00		NIST Webbook
ripol	1446.00		NIST Webbook
tb	544.03	K	Joback Method
tc	757.75	K	Joback Method
tf	302.99	K	Joback Method
vc	0.576	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	319.41	J/molxK	544.03	Joback Method
cpg	368.07	J/molxK	722.13	Joback Method
cpg	359.65	J/molxK	686.51	Joback Method
cpg	350.61	J/molxK	650.89	Joback Method
cpg	340.90	J/molxK	615.27	Joback Method
cpg	330.51	J/molxK	579.65	Joback Method

cpg	375.88	J/mol×K	757.75	Joback Method
dvisc	0.0002209	Paxs	544.03	Joback Method
dvisc	0.0003036	Paxs	503.86	Joback Method
dvisc	0.0004407	Paxs	463.68	Joback Method
dvisc	0.0006867	Paxs	423.51	Joback Method
dvisc	0.0011742	Paxs	383.34	Joback Method
dvisc	0.0022766	Paxs	343.16	Joback Method
dvisc	0.0052610	Paxs	302.99	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R115856&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R115856&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>
<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>ripol:</b>	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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