

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

<b>Inchi:</b>	InChI=1S/C7H11Cl3O2/c1-4-6(2,3)12-5(11)7(8,9)10/h4H2,1-3H3
<b>InchiKey:</b>	IOFGLFCKRVLBSV-UHFFFAOYSA-N
<b>Formula:</b>	C7H11Cl3O2
<b>SMILES:</b>	CCC(C)(C)OC(=O)C(Cl)(Cl)Cl
<b>Mol. weight [g/mol]:</b>	233.52

## Physical Properties

Property code	Value	Unit	Source
gf	-255.97	kJ/mol	Joback Method
hf	-497.33	kJ/mol	Joback Method
hfus	14.44	kJ/mol	Joback Method
hvap	50.89	kJ/mol	Joback Method
log10ws	-3.29		Crippen Method
logp	3.088		Crippen Method
mcvol	153.650	ml/mol	McGowan Method
pc	2721.17	kPa	Joback Method
rinpol	1147.00		NIST Webbook
rinpol	1147.00		NIST Webbook
ripol	1417.00		NIST Webbook
ripol	1417.00		NIST Webbook
tb	541.68	K	Joback Method
tc	759.32	K	Joback Method
tf	335.41	K	Joback Method
vc	0.577	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	322.35	J/molxK	541.68	Joback Method
cpg	333.60	J/molxK	577.95	Joback Method
cpg	344.01	J/molxK	614.23	Joback Method
cpg	353.63	J/molxK	650.50	Joback Method
cpg	362.50	J/molxK	686.77	Joback Method
cpg	370.68	J/molxK	723.04	Joback Method

cpg	378.22	J/mol×K	759.32	Joback Method
dvisc	0.0033014	Paxs	335.41	Joback Method
dvisc	0.0017293	Paxs	369.79	Joback Method
dvisc	0.0010112	Paxs	404.17	Joback Method
dvisc	0.0006431	Paxs	438.55	Joback Method
dvisc	0.0004369	Paxs	472.92	Joback Method
dvisc	0.0003127	Paxs	507.30	Joback Method
dvisc	0.0002336	Paxs	541.68	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=R115841&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R115841&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>rinpolar:</b>	Non-polar retention indices
<b>ripolar:</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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