

# Acetic acid, dichloro-, 1,1-dimethylethyl ester

<b>Other names:</b>	1,1-dimethylethyl dichloroacetate
<b>Inchi:</b>	InChI=1S/C6H10Cl2O2/c1-6(2,3)10-5(9)4(7)8/h4H,1-3H3
<b>InchiKey:</b>	FOLRKRMAFDGZRR-UHFFFAOYSA-N
<b>Formula:</b>	C6H10Cl2O2
<b>SMILES:</b>	CC(C)(C)OC(=O)C(Cl)Cl
<b>Mol. weight [g/mol]:</b>	185.05
<b>CAS:</b>	49653-47-6

## Physical Properties

Property code	Value	Unit	Source
gf	-257.74	kJ/mol	Joback Method
hf	-457.48	kJ/mol	Joback Method
hfus	11.54	kJ/mol	Joback Method
hvap	45.19	kJ/mol	Joback Method
log10ws	-2.22		Crippen Method
logp	2.132		Crippen Method
mcvol	127.320	ml/mol	McGowan Method
pc	3103.64	kPa	Joback Method
rinpol	960.00		NIST Webbook
rinpol	960.00		NIST Webbook
ripol	1339.00		NIST Webbook
ripol	1339.00		NIST Webbook
tb	484.16	K	Joback Method
tc	691.34	K	Joback Method
tf	276.80	K	Joback Method
vc	0.476	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	252.57	J/mol×K	484.16	Joback Method
cpg	263.03	J/mol×K	518.69	Joback Method
cpg	272.88	J/mol×K	553.22	Joback Method
cpg	282.14	J/mol×K	587.75	Joback Method

cpg	290.84	J/mol×K	622.28	Joback Method
cpg	298.99	J/mol×K	656.81	Joback Method
cpg	306.61	J/mol×K	691.34	Joback Method
dvisc	0.0051343	Paxs	276.80	Joback Method
dvisc	0.0024308	Paxs	311.36	Joback Method
dvisc	0.0013363	Paxs	345.92	Joback Method
dvisc	0.0008189	Paxs	380.48	Joback Method
dvisc	0.0005445	Paxs	415.04	Joback Method
dvisc	0.0003855	Paxs	449.60	Joback Method
dvisc	0.0002867	Paxs	484.16	Joback Method

## Sources

<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=C49653476&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C49653476&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>

## 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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