

# 2,2-Dichloroethyl (E)-2-methylbut-2-enoate

<b>Inchi:</b>	InChI=1S/C7H10Cl2O2/c1-3-5(2)7(10)11-4-6(8)9/h3,6H,4H2,1-2H3/b5-3+
<b>InchiKey:</b>	VCAKSASJFAKPJT-HWKANZROSA-N
<b>Formula:</b>	C7H10Cl2O2
<b>SMILES:</b>	CC=C(C)C(=O)OCC(Cl)Cl
<b>Mol. weight [g/mol]:</b>	197.06

## Physical Properties

Property code	Value	Unit	Source
gf	-180.49	kJ/mol	Joback Method
hf	-361.94	kJ/mol	Joback Method
hfus	20.44	kJ/mol	Joback Method
hvap	48.75	kJ/mol	Joback Method
log10ws	-2.38		Crippen Method
logp	2.299		Crippen Method
mcvol	137.110	ml/mol	McGowan Method
pc	2912.39	kPa	Joback Method
rinsol	1241.00		NIST Webbook
tb	514.31	K	Joback Method
tc	719.01	K	Joback Method
tf	266.61	K	Joback Method
vc	0.524	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	272.62	J/mol×K	514.31	Joback Method
cpg	282.88	J/mol×K	548.43	Joback Method
cpg	292.60	J/mol×K	582.54	Joback Method
cpg	301.78	J/mol×K	616.66	Joback Method
cpg	310.46	J/mol×K	650.78	Joback Method
cpg	318.65	J/mol×K	684.90	Joback Method
cpg	326.37	J/mol×K	719.01	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=U373735&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373735&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>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>rinpola:</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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