

# (1E)-1,3-dichloro-1-propene

<b>Inchi:</b>	InChI=1S/C3H4Cl2/c4-2-1-3-5/h1-2H,3H2/b2-1+
<b>InchiKey:</b>	UOORRWUZONOOLO-OWOJBTEDSA-N
<b>Formula:</b>	C3H4Cl2
<b>SMILES:</b>	C1C=CCCl
<b>Mol. weight [g/mol]:</b>	110.97

## Physical Properties

Property code	Value	Unit	Source
gf	30.74	kJ/mol	Joback Method
hf	-19.51	kJ/mol	Joback Method
hfus	12.12	kJ/mol	Joback Method
hvap	31.00	kJ/mol	Joback Method
log10ws	-1.73		Crippen Method
logp	1.978		Crippen Method
mcvol	73.310	ml/mol	McGowan Method
pc	4283.05	kPa	Joback Method
tb	347.06	K	Joback Method
tc	539.68	K	Joback Method
tf	178.33	K	Joback Method
vc	0.281	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	95.61	J/molxK	347.06	Joback Method
cpg	100.95	J/molxK	379.16	Joback Method
cpg	105.95	J/molxK	411.27	Joback Method
cpg	110.64	J/molxK	443.37	Joback Method
cpg	115.03	J/molxK	475.47	Joback Method
cpg	119.14	J/molxK	507.58	Joback Method
cpg	122.99	J/molxK	539.68	Joback Method
dvisc	0.0033771	Paxs	178.33	Joback Method
dvisc	0.0016830	Paxs	206.45	Joback Method
dvisc	0.0009911	Paxs	234.57	Joback Method

dvisc	0.0006537	Paxs	262.69	Joback Method
dvisc	0.0004674	Paxs	290.82	Joback Method
dvisc	0.0003545	Paxs	318.94	Joback Method
dvisc	0.0002812	Paxs	347.06	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=B6002560&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=B6002560&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>hvac:</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>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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