

# Cyclopropane, 1,1-dichloro-

<b>Other names:</b>	1,1-dichlorocyclopropane
<b>Inchi:</b>	InChI=1S/C3H4Cl2/c4-3(5)1-2-3/h1-2H2
<b>InchiKey:</b>	MZJYQXPULRLGCA-UHFFFAOYSA-N
<b>Formula:</b>	C3H4Cl2
<b>SMILES:</b>	C1C(Cl)CC1
<b>Mol. weight [g/mol]:</b>	110.97
<b>CAS:</b>	2088-35-9

## Physical Properties

Property code	Value	Unit	Source
gf	5.78	kJ/mol	Joback Method
hf	-48.69	kJ/mol	Joback Method
hfus	3.76	kJ/mol	Joback Method
hvap	29.80	kJ/mol	Joback Method
log10ws	-1.89		Crippen Method
logp	1.954		Crippen Method
mcvol	66.750	ml/mol	McGowan Method
pc	5065.79	kPa	Joback Method
tb	349.88	K	Joback Method
tc	559.29	K	Joback Method
tf	225.25	K	Joback Method
vc	0.257	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	91.06	J/mol×K	349.88	Joback Method
cpg	99.37	J/mol×K	384.78	Joback Method
cpg	106.64	J/mol×K	419.68	Joback Method
cpg	112.98	J/mol×K	454.59	Joback Method
cpg	118.51	J/mol×K	489.49	Joback Method
cpg	123.34	J/mol×K	524.39	Joback Method
cpg	127.59	J/mol×K	559.29	Joback Method

# Sources

<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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=C2088359&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2088359&amp;Units=SI</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>h vap:</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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