

# cis-2-Chloro-2-pentene

<b>Inchi:</b>	InChI=1S/C5H9Cl/c1-3-4-5(2)6/h4H,3H2,1-2H3/b5-4-
<b>InchiKey:</b>	KQLXLZMCYSIZHH-PLNGDYQASA-N
<b>Formula:</b>	C5H9Cl
<b>SMILES:</b>	CCC=C(C)Cl
<b>Mol. weight [g/mol]:</b>	104.58
<b>CAS:</b>	42131-98-6

## Physical Properties

Property code	Value	Unit	Source
gf	50.96	kJ/mol	Joback Method
hf	-54.84	kJ/mol	Joback Method
hfus	11.79	kJ/mol	Joback Method
hvap	31.15	kJ/mol	Joback Method
log10ws	-2.42		Crippen Method
logp	2.539		Crippen Method
mvol	89.250	ml/mol	McGowan Method
pc	3551.53	kPa	Joback Method
tb	355.27	K	Joback Method
tc	541.10	K	Joback Method
tf	156.99	K	Joback Method
vc	0.345	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	136.97	J/mol×K	355.27	Joback Method
cpg	145.84	J/mol×K	386.24	Joback Method
cpg	154.27	J/mol×K	417.21	Joback Method
cpg	162.28	J/mol×K	448.19	Joback Method
cpg	169.87	J/mol×K	479.16	Joback Method
cpg	177.09	J/mol×K	510.13	Joback Method
cpg	183.93	J/mol×K	541.10	Joback Method

# Sources

<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=C42131986&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C42131986&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>

# 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>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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