

# 2-Hexene, 1-chloro-

<b>Inchi:</b>	InChI=1S/C6H11Cl/c1-2-3-4-5-6-7/h4-5H,2-3,6H2,1H3/b5-4+
<b>InchiKey:</b>	YTXOKPWZPVIFH-SNAWJCMRSA-N
<b>Formula:</b>	C6H11Cl
<b>SMILES:</b>	CCCC=CCCl
<b>Mol. weight [g/mol]:</b>	118.61
<b>CAS:</b>	35911-16-1

## Physical Properties

Property code	Value	Unit	Source
gf	67.93	kJ/mol	Joback Method
hf	-65.69	kJ/mol	Joback Method
hfus	15.69	kJ/mol	Joback Method
hvap	33.29	kJ/mol	Joback Method
log10ws	-2.34		Crippen Method
logp	2.582		Crippen Method
mvol	103.340	ml/mol	McGowan Method
pc	3159.72	kPa	Joback Method
rinpol	827.00		NIST Webbook
rinpol	827.00		NIST Webbook
tb	378.27	K	Joback Method
tc	559.67	K	Joback Method
tf	182.22	K	Joback Method
vc	0.401	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	171.44	J/molxK	378.27	Joback Method
cpg	181.56	J/molxK	408.50	Joback Method
cpg	191.20	J/molxK	438.74	Joback Method
cpg	200.37	J/molxK	468.97	Joback Method
cpg	209.10	J/molxK	499.20	Joback Method
cpg	217.41	J/molxK	529.44	Joback Method
cpg	225.31	J/molxK	559.67	Joback Method

dvisc	0.0043993	Paxs	182.22	Joback Method
dvisc	0.0018736	Paxs	214.89	Joback Method
dvisc	0.0009996	Paxs	247.57	Joback Method
dvisc	0.0006174	Paxs	280.25	Joback Method
dvisc	0.0004217	Paxs	312.92	Joback Method
dvisc	0.0003096	Paxs	345.60	Joback Method
dvisc	0.0002398	Paxs	378.27	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C35911161&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C35911161&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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>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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