

# Heptane, 3-chloro-6-methyl

<b>Inchi:</b>	InChI=1S/C8H17Cl/c1-4-8(9)6-5-7(2)3/h7-8H,4-6H2,1-3H3
<b>InchiKey:</b>	GMLQONWBBDPDQO-UHFFFAOYSA-N
<b>Formula:</b>	C8H17Cl
<b>SMILES:</b>	CCC(Cl)CCC(C)C
<b>Mol. weight [g/mol]:</b>	148.67

## Physical Properties

Property code	Value	Unit	Source
gf	-0.33	kJ/mol	Joback Method
hf	-234.75	kJ/mol	Joback Method
hfus	13.63	kJ/mol	Joback Method
hvap	37.01	kJ/mol	Joback Method
log10ws	-3.19		Crippen Method
logp	3.440		Crippen Method
mcvol	135.820	ml/mol	McGowan Method
pc	2482.59	kPa	Joback Method
rinpol	966.00		NIST Webbook
rinpol	966.00		NIST Webbook
rinpol	966.00		NIST Webbook
tb	418.99	K	Joback Method
tc	597.64	K	Joback Method
tf	179.84	K	Joback Method
vc	0.520	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	262.83	J/molxK	418.99	Joback Method
cpg	276.35	J/molxK	448.77	Joback Method
cpg	289.32	J/molxK	478.54	Joback Method
cpg	301.74	J/molxK	508.32	Joback Method
cpg	313.63	J/molxK	538.09	Joback Method
cpg	325.02	J/molxK	567.87	Joback Method
cpg	335.90	J/molxK	597.64	Joback Method

dvisc	0.0164704	Paxs	179.84	Joback Method
dvisc	0.0043901	Paxs	219.70	Joback Method
dvisc	0.0017563	Paxs	259.56	Joback Method
dvisc	0.0008967	Paxs	299.42	Joback Method
dvisc	0.0005362	Paxs	339.27	Joback Method
dvisc	0.0003572	Paxs	379.13	Joback Method
dvisc	0.0002571	Paxs	418.99	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R116022&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R116022&amp;Units=SI</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>mvol:</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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