

# Cycloheptane, cycloheptylidene-

<b>Inchi:</b>	InChI=1S/C14H24/c1-2-6-10-13(9-5-1)14-11-7-3-4-8-12-14/h1-12H2
<b>InchiKey:</b>	JPWJQIKXWASNOD-UHFFFAOYSA-N
<b>Formula:</b>	C14H24
<b>SMILES:</b>	C1CCCC(=C2CCCCC2)CC1
<b>Mol. weight [g/mol]:</b>	192.34
<b>CAS:</b>	51175-34-9

## Physical Properties

Property code	Value	Unit	Source
gf	117.82	kJ/mol	Joback Method
hf	-160.45	kJ/mol	Joback Method
hfus	9.79	kJ/mol	Joback Method
hvap	50.19	kJ/mol	Joback Method
log10ws	-5.33		Crippen Method
logp	4.991		Crippen Method
mcvol	182.100	ml/mol	McGowan Method
pc	2426.65	kPa	Joback Method
tb	585.82	K	Joback Method
tc	830.58	K	Joback Method
tf	289.54	K	Joback Method
vc	0.657	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	475.57	J/molxK	585.82	Joback Method
cpg	501.70	J/molxK	626.61	Joback Method
cpg	526.05	J/molxK	667.41	Joback Method
cpg	548.67	J/molxK	708.20	Joback Method
cpg	569.61	J/molxK	748.99	Joback Method
cpg	588.93	J/molxK	789.78	Joback Method
cpg	606.67	J/molxK	830.58	Joback Method
dvisc	0.0089932	Paxs	289.54	Joback Method
dvisc	0.0024293	Paxs	338.92	Joback Method

dvisc	0.0009154	Paxs	388.30	Joback Method
dvisc	0.0004299	Paxs	437.68	Joback Method
dvisc	0.0002354	Paxs	487.06	Joback Method
dvisc	0.0001440	Paxs	536.44	Joback Method
dvisc	0.0000957	Paxs	585.82	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=C51175349&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C51175349&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>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>mccvol:</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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