

# 4-Cyclohexyl-cycloheptene

<b>Inchi:</b>	InChI=1S/C14H24/c1-2-5-9-13(10-6-3-1)14-11-7-4-8-12-14/h2,5,13-14H,1,3-4,6-12H2/b5
<b>InchiKey:</b>	RSORXYRYNCWETO-GORDUTHDSA-N
<b>Formula:</b>	C14H24
<b>SMILES:</b>	C1=CCC(C2CCCCC2)CCCC1
<b>Mol. weight [g/mol]:</b>	192.34

## Physical Properties

Property code	Value	Unit	Source
gf	121.66	kJ/mol	Joback Method
hf	-178.19	kJ/mol	Joback Method
hfus	12.71	kJ/mol	Joback Method
hvap	48.25	kJ/mol	Joback Method
log10ws	-4.84		Crippen Method
logp	4.703		Crippen Method
mvol	182.100	ml/mol	McGowan Method
pc	2342.82	kPa	Joback Method
rmpol	1445.00		NIST Webbook
tb	566.52	K	Joback Method
tc	809.26	K	Joback Method
tf	256.02	K	Joback Method
vc	0.655	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	474.57	J/molxK	566.52	Joback Method
cpg	596.46	J/molxK	768.80	Joback Method
cpg	575.67	J/molxK	728.35	Joback Method
cpg	553.14	J/molxK	687.89	Joback Method
cpg	528.81	J/molxK	647.43	Joback Method
cpg	502.64	J/molxK	606.98	Joback Method
cpg	615.54	J/molxK	809.26	Joback Method
dvisc	0.0001328	Paxs	566.52	Joback Method
dvisc	0.0001965	Paxs	514.77	Joback Method

dvisc	0.0003173	Paxs	463.02	Joback Method
dvisc	0.0005783	Paxs	411.27	Joback Method
dvisc	0.0012525	Paxs	359.52	Joback Method
dvisc	0.0035180	Paxs	307.77	Joback Method
dvisc	0.0150016	Paxs	256.02	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=R136422&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R136422&amp;Units=SI</a>
<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>

## 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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