

# Cyclohexene,3-cyclohexyl-

<b>Inchi:</b>	InChI=1S/C12H20/c1-3-7-11(8-4-1)12-9-5-2-6-10-12/h3,7,11-12H,1-2,4-6,8-10H2
<b>InchiKey:</b>	KWMKLPDTWVIT-UHFFFAOYSA-N
<b>Formula:</b>	C12H20
<b>SMILES:</b>	C1=CC(C2CCCCC2)CCC1
<b>Mol. weight [g/mol]:</b>	164.29
<b>CAS:</b>	1808-09-9

## Physical Properties

Property code	Value	Unit	Source
gf	129.02	kJ/mol	Joback Method
hf	-124.59	kJ/mol	Joback Method
hfus	11.73	kJ/mol	Joback Method
hvap	43.46	kJ/mol	Joback Method
ie	8.68 ± 0.01	eV	NIST Webbook
log10ws	-4.01		Crippen Method
logp	3.923		Crippen Method
mcvol	153.920	ml/mol	McGowan Method
pc	2701.41	kPa	Joback Method
tb	512.22	K	Joback Method
tc	746.70	K	Joback Method
tf	240.52	K	Joback Method
vc	0.559	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	367.46	J/molxK	512.22	Joback Method
cpg	476.31	J/molxK	707.62	Joback Method
cpg	457.51	J/molxK	668.54	Joback Method
cpg	437.28	J/molxK	629.46	Joback Method
cpg	415.56	J/molxK	590.38	Joback Method
cpg	392.31	J/molxK	551.30	Joback Method
cpg	493.75	J/molxK	746.70	Joback Method
dvisc	0.0002545	Paxs	512.22	Joback Method

dvisc	0.0003441	Paxs	466.94	Joback Method
dvisc	0.0004964	Paxs	421.65	Joback Method
dvisc	0.0007822	Paxs	376.37	Joback Method
dvisc	0.0013955	Paxs	331.09	Joback Method
dvisc	0.0029911	Paxs	285.80	Joback Method
dvisc	0.0085432	Paxs	240.52	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=C1808099&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1808099&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>ie:</b>	Ionization energy
<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

Latest version available from:

<https://www.chemeo.com/cid/17-867-1/Cyclohexene-3-cyclohexyl.pdf>

Generated by Cheméo on 2023-01-29 22:46:00.235056028 +0000 UTC m=+548699.637833689.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.