

# Neopentylidenecyclohexane

<b>Inchi:</b>	InChI=1S/C11H20/c1-11(2,3)9-10-7-5-4-6-8-10/h9H,4-8H2,1-3H3
<b>InchiKey:</b>	MHNGPSUOLFWERG-UHFFFAOYSA-N
<b>Formula:</b>	C11H20
<b>SMILES:</b>	CC(C)(C)C=C1CCCCC1
<b>Mol. weight [g/mol]:</b>	152.28
<b>CAS:</b>	39546-80-0

## Physical Properties

Property code	Value	Unit	Source
gf	122.20	kJ/mol	Joback Method
hf	-128.43	kJ/mol	Joback Method
hfus	7.92	kJ/mol	Joback Method
hvap	40.31	kJ/mol	Joback Method
log10ws	-3.93		Crippen Method
logp	3.923		Crippen Method
mcvol	150.690	ml/mol	McGowan Method
pc	2530.27	kPa	Joback Method
tb	478.71	K	Joback Method
tc	693.93	K	Joback Method
tf	238.13	K	Joback Method
vc	0.557	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	334.51	J/molxK	478.71	Joback Method
cpg	424.73	J/molxK	658.06	Joback Method
cpg	408.98	J/molxK	622.19	Joback Method
cpg	392.15	J/molxK	586.32	Joback Method
cpg	374.17	J/molxK	550.45	Joback Method
cpg	354.97	J/molxK	514.58	Joback Method
cpg	439.46	J/molxK	693.93	Joback Method
dvisc	0.0002062	Paxs	478.71	Joback Method
dvisc	0.0002935	Paxs	438.61	Joback Method

dvisc	0.0004484	Paxs	398.52	Joback Method
dvisc	0.0007532	Paxs	358.42	Joback Method
dvisc	0.0014418	Paxs	318.32	Joback Method
dvisc	0.0033281	Paxs	278.23	Joback Method
dvisc	0.0101818	Paxs	238.13	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C39546800&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C39546800&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>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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