

# Cyclohexane, 1-(cyclohexylmethyl)-2-methyl-, trans-

Other names:	1-(Cyclohexylmethyl)-2-methylcyclohexane, trans-
Inchi:	InChI=1S/C14H26/c1-12-7-5-6-10-14(12)11-13-8-3-2-4-9-13/h12-14H,2-11H2,1H3/t12-,1
InchiKey:	HJXAJTBTOWMAIA-OCCSQVGLSA-N
Formula:	C14H26
SMILES:	CC1CCCCC1CC1CCCCC1
Mol. weight [g/mol]:	194.36
CAS:	54823-94-8

## Physical Properties

Property code	Value	Unit	Source
chl	-8305.00	kJ/mol	NIST Webbook
gf	108.19	kJ/mol	Joback Method
hf	-243.99	kJ/mol	Joback Method
hfus	16.76	kJ/mol	Joback Method
hvap	47.31	kJ/mol	Joback Method
log10ws	-4.75		Crippen Method
logp	4.783		Crippen Method
mcvol	186.400	ml/mol	McGowan Method
pc	2094.58	kPa	Joback Method
tb	554.15	K	Joback Method
tc	777.71	K	Joback Method
tf	258.06	K	Joback Method
vc	0.684	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	490.28	J/molxK	554.15	Joback Method
cpg	517.42	J/molxK	591.41	Joback Method
cpg	542.93	J/molxK	628.67	Joback Method
cpg	566.87	J/molxK	665.93	Joback Method
cpg	589.27	J/molxK	703.19	Joback Method
cpg	610.19	J/molxK	740.45	Joback Method
cpg	629.67	J/molxK	777.71	Joback Method

dvisc	0.0069798	Paxs	258.06	Joback Method
dvisc	0.0025328	Paxs	307.41	Joback Method
dvisc	0.0012166	Paxs	356.76	Joback Method
dvisc	0.0006984	Paxs	406.10	Joback Method
dvisc	0.0004522	Paxs	455.45	Joback Method
dvisc	0.0003187	Paxs	504.80	Joback Method
dvisc	0.0002391	Paxs	554.15	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=C54823948&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C54823948&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>chl:</b>	Standard liquid enthalpy of combustion
<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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