

# (1 «beta»,3«alpha»,5«alpha»)-3,5-Dimethyl-cyclohexane

Inchi:	InChI=1S/C8H16O/c1-6-3-7(2)5-8(9)4-6/h6-9H,3-5H2,1-2H3/t6-,7+,8+
InchiKey:	WIYNOPYNRFPWNB-JIGDXULJSA-N
Formula:	C8H16O
SMILES:	CC1CC(C)CC(O)C1
Mol. weight [g/mol]:	128.21
CAS:	17373-17-0

## Physical Properties

Property code	Value	Unit	Source
chl	-4950.00 ± 11.00	kJ/mol	NIST Webbook
gf	-111.31	kJ/mol	Joback Method
hf	-347.04	kJ/mol	Joback Method
hfus	14.54	kJ/mol	Joback Method
hvap	49.89	kJ/mol	Joback Method
log10ws	-1.96		Crippen Method
logp	1.803		Crippen Method
mcvol	118.590	ml/mol	McGowan Method
pc	3246.73	kPa	Joback Method
tb	484.83	K	Joback Method
tc	674.82	K	Joback Method
tf	239.64	K	Joback Method
vc	0.433	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	276.01	J/molxK	484.83	Joback Method
cpg	346.84	J/molxK	643.15	Joback Method
cpg	334.00	J/molxK	611.49	Joback Method
cpg	320.50	J/molxK	579.82	Joback Method
cpg	306.35	J/molxK	548.16	Joback Method
cpg	291.52	J/molxK	516.49	Joback Method
cpg	359.03	J/molxK	674.82	Joback Method
dvisc	0.0002017	Paxs	484.83	Joback Method

dvisc	0.0003188	Paxs	443.97	Joback Method
dvisc	0.0005530	Paxs	403.10	Joback Method
dvisc	0.0010862	Paxs	362.24	Joback Method
dvisc	0.0025331	Paxs	321.37	Joback Method
dvisc	0.0075606	Paxs	280.50	Joback Method
dvisc	0.0327662	Paxs	239.64	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=C17373170&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C17373170&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>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

Latest version available from:

<https://www.chemeo.com/cid/44-567-4/1-beta-3-alpha-5-alpha-3-5-Dimethyl-cyclohexanol.pdf>

Generated by Cheméo on 2024-04-25 16:56:51.115699578 +0000 UTC m=+16353460.036276899.

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