

# 1,3-Dimethyl-1-cyclohexene

<b>Other names:</b>	1,3-Dimethyl cyclohexene Cyclohexene, 1,3-dimethyl- 1,3-Dimethyl-3-cyclohexene
<b>Inchi:</b>	InChI=1S/C8H14/c1-7-4-3-5-8(2)6-7/h6-7H,3-5H2,1-2H3
<b>InchiKey:</b>	XTCMQAVNRXZBRH-UHFFFAOYSA-N
<b>Formula:</b>	C8H14
<b>SMILES:</b>	CC1=CC(C)CCC1
<b>Mol. weight [g/mol]:</b>	110.20
<b>CAS:</b>	2808-76-6

## Physical Properties

Property code	Value	Unit	Source
gf	61.26	kJ/mol	Joback Method
hf	-107.82	kJ/mol	Joback Method
hfus	9.14	kJ/mol	Joback Method
hvap	34.79	kJ/mol	Joback Method
log10ws	-2.68		Crippen Method
logp	2.753		Crippen Method
mcvol	108.420	ml/mol	McGowan Method
pc	3228.31	kPa	Joback Method
rinpola	825.00		NIST Webbook
rinpola	836.00		NIST Webbook
rinpola	825.00		NIST Webbook
tb	397.00 ± 3.00	K	NIST Webbook
tb	398.00 ± 3.00	K	NIST Webbook
tb	400.20	K	NIST Webbook
tb	398.00 ± 4.00	K	NIST Webbook
tc	610.71	K	Joback Method
tf	200.58	K	Joback Method
vc	0.403	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	201.81	J/molxK	406.13	Joback Method
cpg	217.51	J/molxK	440.23	Joback Method
cpg	232.47	J/molxK	474.32	Joback Method
cpg	246.71	J/molxK	508.42	Joback Method
cpg	260.26	J/molxK	542.51	Joback Method
cpg	273.11	J/molxK	576.61	Joback Method
cpg	285.31	J/molxK	610.71	Joback Method
dvisc	0.0034105	Paxs	200.58	Joback Method
dvisc	0.0015996	Paxs	234.84	Joback Method
dvisc	0.0009098	Paxs	269.10	Joback Method
dvisc	0.0005878	Paxs	303.36	Joback Method
dvisc	0.0004149	Paxs	337.61	Joback Method
dvisc	0.0003123	Paxs	371.87	Joback Method
dvisc	0.0002466	Paxs	406.13	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C2808766&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2808766&amp;Units=SI</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

**tf:** Normal melting (fusion) point

**vc:** Critical Volume

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