

# trans-3,6-dimethylcyclohexene

<b>Other names:</b>	cis-3,6-dimethylcyclohexene Cyclohexene, 3,6-dimethyl-, cis Cyclohexene, 3,6-dimethyl-
<b>Inchi:</b>	InChI=1S/C8H14/c1-7-3-5-8(2)6-4-7/h3,5,7-8H,4,6H2,1-2H3
<b>InchiKey:</b>	ADPYSZNUBWNLDH-UHFFFAOYSA-N
<b>Formula:</b>	C8H14
<b>SMILES:</b>	CC1C=CC(C)CC1
<b>Mol. weight [g/mol]:</b>	110.20
<b>CAS:</b>	19550-40-4

## Physical Properties

Property code	Value	Unit	Source
gf	63.18	kJ/mol	Joback Method
hf	-116.69	kJ/mol	Joback Method
hfus	10.60	kJ/mol	Joback Method
hvap	33.81	kJ/mol	Joback Method
log10ws	-2.44		Crippen Method
logp	2.609		Crippen Method
mcvol	108.420	ml/mol	McGowan Method
pc	3163.27	kPa	Joback Method
rinpol	790.80		NIST Webbook
rinpol	779.30		NIST Webbook
rinpol	795.50		NIST Webbook
rinpol	789.80		NIST Webbook
ripol	924.00		NIST Webbook
tb	396.48	K	Joback Method
tc	598.94	K	Joback Method
tf	183.82	K	Joback Method
vc	0.402	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	199.92	J/molxK	396.48	Joback Method

cpg	216.40	J/molxK	430.22	Joback Method
cpg	232.12	J/molxK	463.97	Joback Method
cpg	247.09	J/molxK	497.71	Joback Method
cpg	261.33	J/molxK	531.46	Joback Method
cpg	274.86	J/molxK	565.20	Joback Method
cpg	287.70	J/molxK	598.94	Joback Method
dvisc	0.0029050	Paxs	183.82	Joback Method
dvisc	0.0013823	Paxs	219.26	Joback Method
dvisc	0.0008088	Paxs	254.71	Joback Method
dvisc	0.0005394	Paxs	290.15	Joback Method
dvisc	0.0003929	Paxs	325.59	Joback Method
dvisc	0.0003046	Paxs	361.04	Joback Method
dvisc	0.0002471	Paxs	396.48	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=C19550404&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C19550404&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>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>ripol:</b>	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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