

# 2,3-Dimethyl-cyclohexa-1,3-diene

<b>Inchi:</b>	InChI=1S/C8H12/c1-7-5-3-4-6-8(7)2/h5-6H,3-4H2,1-2H3
<b>InchiKey:</b>	LYIAPOCBDHFNSZ-UHFFFAOYSA-N
<b>Formula:</b>	C8H12
<b>SMILES:</b>	CC1=CCCC=C1C
<b>Mol. weight [g/mol]:</b>	108.18
<b>CAS:</b>	4430-91-5

## Physical Properties

Property code	Value	Unit	Source
gf	89.30	kJ/mol	Joback Method
hf	-41.17	kJ/mol	Joback Method
hfus	8.91	kJ/mol	Joback Method
hvap	36.05	kJ/mol	Joback Method
log10ws	-2.77		Crippen Method
logp	2.673		Crippen Method
mvol	104.120	ml/mol	McGowan Method
pc	3435.91	kPa	Joback Method
rinpol	856.00		NIST Webbook
tb	408.70 ± 4.00	K	NIST Webbook
tc	623.73	K	Joback Method
tf	218.10	K	Joback Method
vc	0.390	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	189.88	J/molxK	414.94	Joback Method
cpg	251.30	J/molxK	588.93	Joback Method
cpg	240.29	J/molxK	554.14	Joback Method
cpg	228.67	J/molxK	519.34	Joback Method
cpg	216.40	J/molxK	484.54	Joback Method
cpg	203.48	J/molxK	449.74	Joback Method
cpg	261.72	J/molxK	623.73	Joback Method
dvisc	0.0002292	Paxs	414.94	Joback Method

dvisc	0.0002903	Paxs	382.13	Joback Method
dvisc	0.0003843	Paxs	349.33	Joback Method
dvisc	0.0005393	Paxs	316.52	Joback Method
dvisc	0.0008183	Paxs	283.71	Joback Method
dvisc	0.0013849	Paxs	250.91	Joback Method
dvisc	0.0027458	Paxs	218.10	Joback Method

## Sources

<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=C4430915&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4430915&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</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
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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