

# 3-Hexene, 3,4-dimethyl-, (Z)-

<b>Other names:</b>	(Z)-C <sub>2</sub> H <sub>5</sub> C(CH <sub>3</sub> )=C(CH <sub>3</sub> )C <sub>2</sub> H <sub>5</sub> cis-3,4-Dimethyl-3-hexene (3Z)-3,4-Dimethyl-3-hexene 2-Hexene, 3,4-dimethyl, cis (Z)-3,4-Dimethylhex-2-ene (Z)-3,4-Dimethylhex-3-ene
<b>Inchi:</b>	InChI=1S/C <sub>8</sub> H <sub>16</sub> /c1-5-7(3)8(4)6-2/h5-6H <sub>2</sub> ,1-4H <sub>3</sub> /b8-7-
<b>InchiKey:</b>	XTUXVDJHGIEBAA-FPLPWBNLSA-N
<b>Formula:</b>	C <sub>8</sub> H <sub>16</sub>
<b>SMILES:</b>	CCC(C)=C(C)CC
<b>Mol. weight [g/mol]:</b>	112.21
<b>CAS:</b>	19550-87-9

## Physical Properties

Property code	Value	Unit	Source
gf	79.60	kJ/mol	Joback Method
hf	-110.81	kJ/mol	Joback Method
hfus	14.06	kJ/mol	Joback Method
hvap	39.70	kJ/mol	NIST Webbook
ie	8.17 ± 0.00	eV	NIST Webbook
log10ws	-3.02		Crippen Method
logp	3.143		Crippen Method
mcvol	119.280	ml/mol	McGowan Method
pc	2701.41	kPa	Joback Method
rinpol	785.00		NIST Webbook
rinpol	764.80		NIST Webbook
rinpol	764.80		NIST Webbook
rinpol	786.00		NIST Webbook
rinpol	754.50		NIST Webbook
rinpol	781.80		NIST Webbook
rinpol	783.00		NIST Webbook
rinpol	783.00		NIST Webbook
rinpol	782.00		NIST Webbook
rinpol	784.00		NIST Webbook
rinpol	757.00		NIST Webbook
rinpol	795.70		NIST Webbook
tb	386.36	K	Joback Method

tc	565.14	K	Joback Method
tf	146.92	K	Joback Method
vc	0.466	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	218.01	J/mol×K	386.36	Joback Method
cpg	231.36	J/mol×K	416.16	Joback Method
cpg	244.11	J/mol×K	445.95	Joback Method
cpg	256.30	J/mol×K	475.75	Joback Method
cpg	267.94	J/mol×K	505.55	Joback Method
cpg	279.06	J/mol×K	535.34	Joback Method
cpg	289.68	J/mol×K	565.14	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=C19550879&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C19550879&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>ie:</b>	Ionization energy
<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
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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