

# 3-Hexene, 2,2,5-trimethyl

Inchi:	InChI=1S/C9H18/c1-8(2)6-7-9(3,4)5/h6-8H,1-5H3/b7-6+
InchiKey:	TWZONWQQRUSASE-VOTSOKGWSA-N
Formula:	C9H18
SMILES:	CC(C)C=CC(C)(C)C
Mol. weight [g/mol]:	126.24

## Physical Properties

Property code	Value	Unit	Source
gf	105.52	kJ/mol	Joback Method
hf	-125.90	kJ/mol	Joback Method
hfus	8.33	kJ/mol	Joback Method
hvap	33.90	kJ/mol	Joback Method
log10ws	-2.96		Crippen Method
logp	3.245		Crippen Method
mcvol	133.370	ml/mol	McGowan Method
pc	2492.52	kPa	Joback Method
rinpol	765.00		NIST Webbook
rinpol	765.00		NIST Webbook
tb	405.81	K	Joback Method
tc	592.45	K	Joback Method
tf	173.53	K	Joback Method
vc	0.502	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	259.50	J/molxK	405.81	Joback Method
cpg	275.50	J/molxK	436.92	Joback Method
cpg	290.65	J/molxK	468.02	Joback Method
cpg	304.97	J/molxK	499.13	Joback Method
cpg	318.51	J/molxK	530.24	Joback Method
cpg	331.32	J/molxK	561.35	Joback Method
cpg	343.42	J/molxK	592.45	Joback Method
dvisc	0.0221680	Paxs	173.53	Joback Method

dvisc	0.0050227	Paxs	212.24	Joback Method
dvisc	0.0017992	Paxs	250.96	Joback Method
dvisc	0.0008480	Paxs	289.67	Joback Method
dvisc	0.0004772	Paxs	328.38	Joback Method
dvisc	0.0003032	Paxs	367.10	Joback Method
dvisc	0.0002101	Paxs	405.81	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=R127210&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R127210&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>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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