

# 1-Hexene, 3,5,5-trimethyl-

<b>Other names:</b>	3,5,5-Trimethyl-1-hexene 3,5,5-Trimethylhexene-1
<b>Inchi:</b>	InChI=1S/C9H18/c1-6-8(2)7-9(3,4)5/h6,8H,1,7H2,2-5H3
<b>InchiKey:</b>	JTXUVHFRSRTSAT-UHFFFAOYSA-N
<b>Formula:</b>	C9H18
<b>SMILES:</b>	C=CC(C)CC(C)(C)C
<b>Mol. weight [g/mol]:</b>	126.24
<b>CAS:</b>	4316-65-8

## Physical Properties

Property code	Value	Unit	Source
gf	113.14	kJ/mol	Joback Method
hf	-117.69	kJ/mol	Joback Method
hfus	6.85	kJ/mol	Joback Method
hvap	33.27	kJ/mol	Joback Method
log10ws	-2.96		Crippen Method
logp	3.245		Crippen Method
mcvol	133.370	ml/mol	McGowan Method
pc	2467.81	kPa	Joback Method
rinpol	770.00		NIST Webbook
rinpol	769.00		NIST Webbook
rinpol	770.00		NIST Webbook
rinpol	766.50		NIST Webbook
rinpol	767.60		NIST Webbook
rinpol	768.70		NIST Webbook
rinpol	770.00		NIST Webbook
rinpol	771.20		NIST Webbook
rinpol	772.70		NIST Webbook
rinpol	766.00		NIST Webbook
rinpol	767.40		NIST Webbook
rinpol	765.00		NIST Webbook
rinpol	767.90		NIST Webbook
rinpol	771.90		NIST Webbook
rinpol	768.00		NIST Webbook
rinpol	765.30		NIST Webbook
rinpol	766.00		NIST Webbook
rinpol	767.00		NIST Webbook

rinpol	767.90		NIST Webbook
rinpol	768.80		NIST Webbook
rinpol	769.80		NIST Webbook
rinpol	795.00		NIST Webbook
rinpol	764.00		NIST Webbook
rinpol	768.00		NIST Webbook
rinpol	763.00		NIST Webbook
rinpol	767.00		NIST Webbook
rinpol	766.00		NIST Webbook
rinpol	765.00		NIST Webbook
rinpol	768.00		NIST Webbook
rinpol	768.80		NIST Webbook
rinpol	773.80		NIST Webbook
rinpol	764.00		NIST Webbook
tb	392.60 ± 5.00	K	NIST Webbook
tc	579.58	K	Joback Method
tf	176.85	K	Joback Method
vc	0.503	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	258.54	J/molxK	398.33	Joback Method
cpg	329.08	J/molxK	549.37	Joback Method
cpg	316.41	J/molxK	519.16	Joback Method
cpg	303.05	J/molxK	488.95	Joback Method
cpg	288.97	J/molxK	458.75	Joback Method
cpg	274.14	J/molxK	428.54	Joback Method
cpg	341.10	J/molxK	579.58	Joback Method
dvisc	0.0002526	Paxs	398.33	Joback Method
dvisc	0.0003590	Paxs	361.42	Joback Method
dvisc	0.0005527	Paxs	324.50	Joback Method
dvisc	0.0009507	Paxs	287.59	Joback Method
dvisc	0.0019184	Paxs	250.68	Joback Method
dvisc	0.0049331	Paxs	213.76	Joback Method
dvisc	0.0188168	Paxs	176.85	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=C4316658&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4316658&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>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
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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