

# 1-Nonene, 4,6,8-trimethyl-

<b>Inchi:</b>	InChI=1S/C12H24/c1-6-7-11(4)9-12(5)8-10(2)3/h6,10-12H,1,7-9H2,2-5H3
<b>InchiKey:</b>	MYYALSDXVMCKSR-UHFFFAOYSA-N
<b>Formula:</b>	C12H24
<b>SMILES:</b>	C=CCC(C)CC(C)CC(C)C
<b>Mol. weight [g/mol]:</b>	168.32
<b>CAS:</b>	54410-98-9

## Physical Properties

Property code	Value	Unit	Source
gf	130.68	kJ/mol	Joback Method
hf	-181.42	kJ/mol	Joback Method
hfus	14.99	kJ/mol	Joback Method
hvap	40.47	kJ/mol	Joback Method
log10ws	-3.97		Crippen Method
logp	4.271		Crippen Method
mcvol	175.640	ml/mol	McGowan Method
pc	1883.80	kPa	Joback Method
tb	469.32	K	Joback Method
tc	643.62	K	Joback Method
tf	178.24	K	Joback Method
vc	0.670	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	389.25	J/molxK	469.32	Joback Method
cpg	406.83	J/molxK	498.37	Joback Method
cpg	423.66	J/molxK	527.42	Joback Method
cpg	439.77	J/molxK	556.47	Joback Method
cpg	455.18	J/molxK	585.52	Joback Method
cpg	469.91	J/molxK	614.57	Joback Method
cpg	483.99	J/molxK	643.62	Joback Method
dvisc	0.0328070	Paxs	178.24	Joback Method
dvisc	0.0054945	Paxs	226.75	Joback Method

dvisc	0.0017276	Paxs	275.27	Joback Method
dvisc	0.0007683	Paxs	323.78	Joback Method
dvisc	0.0004220	Paxs	372.29	Joback Method
dvisc	0.0002661	Paxs	420.81	Joback Method
dvisc	0.0001846	Paxs	469.32	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=C54410989&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C54410989&amp;Units=SI</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>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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