

# 1,8-Nonadiene, 2-methyl-5,7-dimethylene-

<b>Other names:</b>	2-Methyl-5,7-dimethylene-1,8-nonadiene
<b>Inchi:</b>	InChI=1S/C12H18/c1-6-11(4)9-12(5)8-7-10(2)3/h6H,1-2,4-5,7-9H2,3H3
<b>InchiKey:</b>	RCZAYHKXHPHPX-UHFFFAOYSA-N
<b>Formula:</b>	C12H18
<b>SMILES:</b>	<chem>C=CC(=C)CC(=C)CCC(=C)C</chem>
<b>Mol. weight [g/mol]:</b>	162.27

## Physical Properties

Property code	Value	Unit	Source
gf	375.87	kJ/mol	Joback Method
hf	181.34	kJ/mol	Joback Method
hfus	17.79	kJ/mol	Joback Method
hvap	39.87	kJ/mol	Joback Method
log10ws	-4.26		Crippen Method
logp	4.031		Crippen Method
mcvol	162.740	ml/mol	McGowan Method
pc	2090.75	kPa	Joback Method
tb	460.32	K	Joback Method
tc	643.48	K	Joback Method
tf	176.08	K	Joback Method
vc	0.634	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	336.50	J/molxK	460.32	Joback Method
cpg	352.12	J/molxK	490.85	Joback Method
cpg	366.96	J/molxK	521.37	Joback Method
cpg	381.04	J/molxK	551.90	Joback Method
cpg	394.40	J/molxK	582.42	Joback Method
cpg	407.08	J/molxK	612.95	Joback Method
cpg	419.11	J/molxK	643.48	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U152688&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U152688&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>
<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>

# 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>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mccvol:</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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