

# 3,7-Nonadien-2-one, 4,8-dimethyl-

<b>Other names:</b>	4,8-Dimethyl-3,7-nonadien-2-one 4,8-Dimethylnona-3,7-dien-2-one
<b>Inchi:</b>	InChI=1S/C11H18O/c1-9(2)6-5-7-10(3)8-11(4)12/h6,8H,5,7H2,1-4H3/b10-8-
<b>InchiKey:</b>	QAFYGHBGWCPRCI-NTMALXAHSA-N
<b>Formula:</b>	C11H18O
<b>SMILES:</b>	CC(=O)C=C(C)CCC=C(C)C
<b>Mol. weight [g/mol]:</b>	166.26
<b>CAS:</b>	817-88-9

## Physical Properties

Property code	Value	Unit	Source
gf	56.16	kJ/mol	Joback Method
hf	-168.09	kJ/mol	Joback Method
hfus	23.63	kJ/mol	Joback Method
hvap	46.90	kJ/mol	Joback Method
log10ws	-3.41		Crippen Method
logp	3.268		Crippen Method
mcvol	158.820	ml/mol	McGowan Method
pc	2274.07	kPa	Joback Method
rinpol	1240.80		NIST Webbook
rinpol	1240.80		NIST Webbook
tb	513.03	K	Joback Method
tc	706.51	K	Joback Method
tf	225.58	K	Joback Method
vc	0.620	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	353.26	J/mol×K	513.03	Joback Method
cpg	368.28	J/mol×K	545.28	Joback Method
cpg	382.49	J/mol×K	577.52	Joback Method
cpg	395.95	J/mol×K	609.77	Joback Method
cpg	408.69	J/mol×K	642.02	Joback Method

cpg	420.75	J/mol×K	674.26	Joback Method
cpg	432.17	J/mol×K	706.51	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=C817889&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C817889&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>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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