

# 1,2-Nonadiene

<b>Inchi:</b>	InChI=1S/C9H16/c1-3-5-7-9-8-6-4-2/h5H,1,4,6-9H2,2H3
<b>InchiKey:</b>	BBECVROIQDCRKP-UHFFFAOYSA-N
<b>Formula:</b>	C9H16
<b>SMILES:</b>	C=C=CCCCCCC
<b>Mol. weight [g/mol]:</b>	124.22
<b>CAS:</b>	22433-33-6

## Physical Properties

Property code	Value	Unit	Source
gf	241.02	kJ/mol	Joback Method
hf	59.12	kJ/mol	Joback Method
hfus	19.92	kJ/mol	Joback Method
hvap	35.39	kJ/mol	Joback Method
log10ws	-3.32		Crippen Method
logp	3.298		Crippen Method
mcvol	129.070	ml/mol	McGowan Method
pc	2635.25	kPa	Joback Method
rinpol	920.00		NIST Webbook
tb	405.27	K	Joback Method
tc	582.01	K	Joback Method
tf	195.94	K	Joback Method
vc	0.500	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	247.56	J/mol×K	405.27	Joback Method
cpg	260.39	J/mol×K	434.73	Joback Method
cpg	272.74	J/mol×K	464.18	Joback Method
cpg	284.65	J/mol×K	493.64	Joback Method
cpg	296.11	J/mol×K	523.10	Joback Method
cpg	307.12	J/mol×K	552.55	Joback Method
cpg	317.71	J/mol×K	582.01	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=C22433336&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C22433336&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>

# 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>hvp:</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>rinp:</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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