

# 1,4-Methanonaphthalene,1,4-dihydro-9-((1-methyl

<b>Other names:</b>	1,4-Dihydro-methylethylidene-1,4-methanonaphthalene 1,4-Dihydro-9-isopropylidene-1,4-methanonaphthalene 9-Isopropylidene-1,4-dihydro-1,4-methano-naphthalene
<b>Inchi:</b>	InChI=1S/C14H14/c1-9(2)14-12-7-8-13(14)11-6-4-3-5-10(11)12/h3-8,12-13H,1-2H3
<b>InchiKey:</b>	RRINDAPCHOTJQK-UHFFFAOYSA-N
<b>Formula:</b>	C14H14
<b>SMILES:</b>	CC(C)=C1C2C=CC1c1cccc12
<b>Mol. weight [g/mol]:</b>	182.26
<b>CAS:</b>	7350-72-3

## Physical Properties

Property code	Value	Unit	Source
gf	370.25	kJ/mol	Joback Method
hf	168.55	kJ/mol	Joback Method
hfus	24.27	kJ/mol	Joback Method
hvap	50.51	kJ/mol	Joback Method
ie	8.01	eV	NIST Webbook
log10ws	-4.18		Crippen Method
logp	3.774		Crippen Method
mcvol	154.040	ml/mol	McGowan Method
pc	2654.29	kPa	Joback Method
tb	566.27	K	Joback Method
tc	797.04	K	Joback Method
tf	323.04	K	Joback Method
vc	0.604	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	375.33	J/molxK	566.27	Joback Method
cpg	391.98	J/molxK	604.73	Joback Method
cpg	407.34	J/molxK	643.19	Joback Method
cpg	421.54	J/molxK	681.66	Joback Method
cpg	434.72	J/molxK	720.12	Joback Method

cpg	447.00	J/mol×K	758.58	Joback Method
cpg	458.53	J/mol×K	797.04	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=C7350723&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C7350723&amp;Units=SI</a>
<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>

## 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>hvac:</b>	Enthalpy of vaporization at standard conditions
<b>ie:</b>	Ionization energy
<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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