

# Naphthalene, 1,2-dihydro-3-methyl-

<b>Other names:</b>	1,2-Dihydro-3-methylnaphthalene 2-Methyl-3,4-dihydronaphthalene 3-Methyl-1,2-dihydronaphthalene 3,4-Dihydro-2-methylnaphthalene
<b>Inchi:</b>	InChI=1S/C11H12/c1-9-6-7-10-4-2-3-5-11(10)8-9/h2-5,8H,6-7H2,1H3
<b>InchiKey:</b>	LJMXZKYACOOCMW-UHFFFAOYSA-N
<b>Formula:</b>	C11H12
<b>SMILES:</b>	CC1=Cc2ccccc2CC1
<b>Mol. weight [g/mol]:</b>	144.21
<b>CAS:</b>	2717-44-4

## Physical Properties

Property code	Value	Unit	Source
gf	221.21	kJ/mol	Joback Method
hf	87.98	kJ/mol	Joback Method
hfus	13.69	kJ/mol	Joback Method
hvap	44.37	kJ/mol	Joback Method
log10ws	-3.41		Crippen Method
logp	3.036		Crippen Method
mcvol	126.930	ml/mol	McGowan Method
pc	3269.04	kPa	Joback Method
tb	502.56	K	Joback Method
tc	734.79	K	Joback Method
tf	284.61	K	Joback Method
vc	0.479	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	269.10	J/molxK	502.56	Joback Method
cpg	284.80	J/molxK	541.27	Joback Method
cpg	299.39	J/molxK	579.97	Joback Method
cpg	312.95	J/molxK	618.68	Joback Method
cpg	325.55	J/molxK	657.38	Joback Method

cpg	337.25	J/mol×K	696.09	Joback Method
cpg	348.12	J/mol×K	734.79	Joback Method
dvisc	0.0017269	Paxs	284.61	Joback Method
dvisc	0.0011033	Paxs	320.94	Joback Method
dvisc	0.0007721	Paxs	357.26	Joback Method
dvisc	0.0005772	Paxs	393.59	Joback Method
dvisc	0.0004532	Paxs	429.91	Joback Method
dvisc	0.0003695	Paxs	466.24	Joback Method
dvisc	0.0003103	Paxs	502.56	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C2717444&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2717444&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>
<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>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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