

# Naphthalene, 1,2,3,4-tetrahydro-2-methyl-

<b>Other names:</b>	1,2,3,4-TETRAHYDRO-2-METHYLNAPHTHALENE 2-METHYLTETRALIN 2-Methyl-(1,2,3,4-tetrahydronaphthalene) 2-Methyltetraline tetrahydro-2-methylnaphthalene «beta»-Methyltetralin
<b>Inchi:</b>	InChI=1S/C11H14/c1-9-6-7-10-4-2-3-5-11(10)8-9/h2-5,9H,6-8H2,1H3
<b>InchiKey:</b>	WJRGJANWBCPTLH-UHFFFAOYSA-N
<b>Formula:</b>	C11H14
<b>SMILES:</b>	CC1CCc2ccccc2C1
<b>Mol. weight [g/mol]:</b>	146.23
<b>CAS:</b>	3877-19-8

## Physical Properties

Property code	Value	Unit	Source
gf	193.17	kJ/mol	Joback Method
hf	21.33	kJ/mol	Joback Method
hfus	13.93	kJ/mol	Joback Method
hvap	43.10	kJ/mol	Joback Method
log10ws	-3.15		Crippen Method
logp	2.811		Crippen Method
mcvol	131.230	ml/mol	McGowan Method
pc	2969.00	kPa	KDB
rinpol	1207.00		NIST Webbook
rinpol	1207.00		NIST Webbook
rinpol	1218.00		NIST Webbook
ripol	1685.00		NIST Webbook
ripol	1685.00		NIST Webbook
tb	491.00	K	KDB
tc	715.20	K	KDB
tf	267.09	K	Joback Method
vc	0.500	m <sup>3</sup> /kmol	KDB
zc	0.2496410		KDB

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	377.26	J/molxK	722.14	Joback Method
cpg	364.65	J/molxK	684.08	Joback Method
cpg	351.11	J/molxK	646.01	Joback Method
cpg	336.57	J/molxK	607.95	Joback Method
cpg	320.97	J/molxK	569.88	Joback Method
cpg	304.24	J/molxK	531.82	Joback Method
cpg	286.33	J/molxK	493.75	Joback Method
dvisc	0.0019857	Paxs	267.09	Joback Method
dvisc	0.0003405	Paxs	493.75	Joback Method
dvisc	0.0004045	Paxs	455.97	Joback Method
dvisc	0.0004956	Paxs	418.20	Joback Method
dvisc	0.0006323	Paxs	380.42	Joback Method
dvisc	0.0008513	Paxs	342.64	Joback Method
dvisc	0.0012337	Paxs	304.87	Joback Method
rhol	950.51	kg/m3	293.10	KDB

## Sources

<b>KDB:</b>	<a href="https://www.thermo.com/research/kdb/hcprop/showprop.php?cmpid=762">https://www.thermo.com/research/kdb/hcprop/showprop.php?cmpid=762</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=C3877198&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3877198&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307i">http://pubs.acs.org/doi/abs/10.1021/ci990307i</a>
<b>Crippen Method:</b>	<a href="https://www.chemed.com/doc/models/crippen_log10ws">https://www.chemed.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>

## 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>rho:</b>	Liquid Density
<b>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	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
<b>zc:</b>	Critical Compressibility

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