

# Naphthalene, 1,2,3,4,6,7-hexamethyl

<b>Inchi:</b>	InChI=1S/C16H20/c1-9-7-15-13(5)11(3)12(4)14(6)16(15)8-10(9)2/h7-8H,1-6H3
<b>InchiKey:</b>	BLWBJUXFWPSYLG-UHFFFAOYSA-N
<b>Formula:</b>	C16H20
<b>SMILES:</b>	Cc1cc2c(C)c(C)c(C)c(C)c2cc1C
<b>Mol. weight [g/mol]:</b>	212.33
<b>CAS:</b>	17384-76-8

## Physical Properties

Property code	Value	Unit	Source
gf	245.12	kJ/mol	Joback Method
hf	-14.79	kJ/mol	Joback Method
hfus	25.92	kJ/mol	Joback Method
hvap	59.10	kJ/mol	Joback Method
log10ws	-6.13		Crippen Method
logp	4.690		Crippen Method
mcvol	193.080	ml/mol	McGowan Method
pc	1944.08	kPa	Joback Method
rinpol	1986.00		NIST Webbook
tb	641.02	K	Joback Method
tc	859.89	K	Joback Method
tf	404.32	K	Joback Method
vc	0.746	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	488.20	J/molxK	641.02	Joback Method
cpg	562.65	J/molxK	823.42	Joback Method
cpg	549.39	J/molxK	786.94	Joback Method
cpg	535.35	J/molxK	750.46	Joback Method
cpg	520.50	J/molxK	713.98	Joback Method
cpg	504.79	J/molxK	677.50	Joback Method
cpg	575.19	J/molxK	859.89	Joback Method
dvisc	0.0002428	Paxs	641.02	Joback Method

dvisc	0.0002758	Paxs	601.57	Joback Method
dvisc	0.0003190	Paxs	562.12	Joback Method
dvisc	0.0003770	Paxs	522.67	Joback Method
dvisc	0.0004580	Paxs	483.22	Joback Method
dvisc	0.0005759	Paxs	443.77	Joback Method
dvisc	0.0007572	Paxs	404.32	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C17384768&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C17384768&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>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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