

# Naphthalene, 1,2,3,4,6-pentamethyl

<b>Inchi:</b>	InChI=1S/C15H18/c1-9-6-7-14-12(4)10(2)11(3)13(5)15(14)8-9/h6-8H,1-5H3
<b>InchiKey:</b>	ZQPCPWIIDOOAMV-UHFFFAOYSA-N
<b>Formula:</b>	C15H18
<b>SMILES:</b>	Cc1ccc2c(C)c(C)c(C)c(C)c2c1
<b>Mol. weight [g/mol]:</b>	198.30

## Physical Properties

Property code	Value	Unit	Source
gf	246.33	kJ/mol	Joback Method
hf	17.32	kJ/mol	Joback Method
hfus	23.72	kJ/mol	Joback Method
hvap	56.21	kJ/mol	Joback Method
log10ws	-5.65		Crippen Method
logp	4.382		Crippen Method
mcvol	178.990	ml/mol	McGowan Method
pc	2149.31	kPa	Joback Method
rinpol	316.62		NIST Webbook
rinpol	314.65		NIST Webbook
rinpol	1864.00		NIST Webbook
rinpol	1864.00		NIST Webbook
ripol	288.87		NIST Webbook
tb	613.16	K	Joback Method
tc	835.07	K	Joback Method
tf	380.53	K	Joback Method
vc	0.690	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	437.97	J/molxK	613.16	Joback Method
cpg	454.18	J/molxK	650.14	Joback Method
cpg	469.48	J/molxK	687.13	Joback Method
cpg	483.90	J/molxK	724.11	Joback Method
cpg	497.51	J/molxK	761.10	Joback Method

cpg	510.34	J/molxK	798.08	Joback Method
cpg	522.44	J/molxK	835.07	Joback Method
dvisc	0.0008508	Paxs	380.53	Joback Method
dvisc	0.0006352	Paxs	419.30	Joback Method
dvisc	0.0004983	Paxs	458.07	Joback Method
dvisc	0.0004060	Paxs	496.85	Joback Method
dvisc	0.0003408	Paxs	535.62	Joback Method
dvisc	0.0002929	Paxs	574.39	Joback Method
dvisc	0.0002566	Paxs	613.16	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R18521&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R18521&amp;Units=SI</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>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

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