

# Naphthalene, 1,2,3,6-tetramethyl

<b>Inchi:</b>	InChI=1S/C14H16/c1-9-5-6-14-12(4)11(3)10(2)8-13(14)7-9/h5-8H,1-4H3
<b>InchiKey:</b>	UPZLPCWLGUVTJE-UHFFFAOYSA-N
<b>Formula:</b>	C14H16
<b>SMILES:</b>	<chem>Cc1ccc2c(C)c(C)c(C)cc2c1</chem>
<b>Mol. weight [g/mol]:</b>	184.28

## Physical Properties

Property code	Value	Unit	Source
gf	247.54	kJ/mol	Joback Method
hf	49.43	kJ/mol	Joback Method
hfus	21.52	kJ/mol	Joback Method
hvap	53.32	kJ/mol	Joback Method
log10ws	-5.18		Crippen Method
logp	4.073		Crippen Method
mcvol	164.900	ml/mol	McGowan Method
pc	2388.85	kPa	Joback Method
rinpol	290.91		NIST Webbook
rinpol	290.91		NIST Webbook
tb	585.30	K	Joback Method
tc	810.38	K	Joback Method
tf	356.74	K	Joback Method
vc	0.633	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	389.23	J/molxK	585.30	Joback Method
cpg	405.02	J/molxK	622.81	Joback Method
cpg	419.87	J/molxK	660.33	Joback Method
cpg	433.83	J/molxK	697.84	Joback Method
cpg	446.95	J/molxK	735.36	Joback Method
cpg	459.28	J/molxK	772.87	Joback Method
cpg	470.88	J/molxK	810.38	Joback Method
dvisc	0.0009613	Paxs	356.74	Joback Method

dvisc	0.0007025	Paxs	394.83	Joback Method
dvisc	0.0005425	Paxs	432.93	Joback Method
dvisc	0.0004369	Paxs	471.02	Joback Method
dvisc	0.0003634	Paxs	509.11	Joback Method
dvisc	0.0003101	Paxs	547.21	Joback Method
dvisc	0.0002702	Paxs	585.30	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=R45845&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R45845&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>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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