

# Naphthalene, 2-methyl-1-propyl-

<b>Inchi:</b>	InChI=1S/C14H16/c1-3-6-13-11(2)9-10-12-7-4-5-8-14(12)13/h4-5,7-10H,3,6H2,1-2H3
<b>InchiKey:</b>	BTYYGWOCMUPYPQ-UHFFFAOYSA-N
<b>Formula:</b>	C14H16
<b>SMILES:</b>	CCc1c(C)ccc2ccccc12
<b>Mol. weight [g/mol]:</b>	184.28
<b>CAS:</b>	54774-89-9

## Physical Properties

Property code	Value	Unit	Source
gf	266.80	kJ/mol	Joback Method
hf	72.37	kJ/mol	Joback Method
hfus	22.30	kJ/mol	Joback Method
hvap	52.00	kJ/mol	Joback Method
log10ws	-4.97		Crippen Method
logp	4.101		Crippen Method
mcvol	164.900	ml/mol	McGowan Method
pc	2460.47	kPa	Joback Method
tb	575.34	K	Joback Method
tc	798.37	K	Joback Method
tf	331.70	K	Joback Method
vc	0.633	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	389.82	J/molxK	575.34	Joback Method
cpg	461.76	J/molxK	761.20	Joback Method
cpg	449.22	J/molxK	724.03	Joback Method
cpg	435.82	J/molxK	686.85	Joback Method
cpg	421.50	J/molxK	649.68	Joback Method
cpg	406.19	J/molxK	612.51	Joback Method
cpg	473.50	J/molxK	798.37	Joback Method
dvisc	0.0002769	Paxs	575.34	Joback Method
dvisc	0.0003270	Paxs	534.73	Joback Method

dvisc	0.0003970	Paxs	494.13	Joback Method
dvisc	0.0004990	Paxs	453.52	Joback Method
dvisc	0.0006561	Paxs	412.91	Joback Method
dvisc	0.0009157	Paxs	372.31	Joback Method
dvisc	0.0013867	Paxs	331.70	Joback Method

## Sources

<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=C54774899&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C54774899&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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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