

# Naphthalene, 2-(phenylmethyl)-

<b>Other names:</b>	Naphthalene, 2-benzyl- 2-Benzyl-naphthalene 2-(Phenylmethyl)naphthalene
<b>Inchi:</b>	InChI=1S/C17H14/c1-2-6-14(7-3-1)12-15-10-11-16-8-4-5-9-17(16)13-15/h1-11,13H,12H2
<b>InchiKey:</b>	JASHTKAXQWIZGF-UHFFFAOYSA-N
<b>Formula:</b>	C17H14
<b>SMILES:</b>	<chem>c1ccc(Cc2ccc3ccccc3c2)cc1</chem>
<b>Mol. weight [g/mol]:</b>	218.29
<b>CAS:</b>	613-59-2

## Physical Properties

Property code	Value	Unit	Source
gf	414.10	kJ/mol	Joback Method
hf	258.45	kJ/mol	Joback Method
hfus	24.50	kJ/mol	Joback Method
hvap	60.29	kJ/mol	Joback Method
log10ws	-5.38		Crippen Method
logp	4.431		Crippen Method
mcvol	183.410	ml/mol	McGowan Method
pc	2608.40	kPa	Joback Method
rinpol	339.20		NIST Webbook
rinpol	350.51		NIST Webbook
rinpol	349.45		NIST Webbook
rinpol	349.45		NIST Webbook
rinpol	349.29		NIST Webbook
rinpol	339.20		NIST Webbook
tb	665.68	K	Joback Method
tc	922.07	K	Joback Method
tf	328.00 ± 3.00	K	NIST Webbook
vc	0.694	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	463.17	J/molxK	665.68	Joback Method
cpg	480.30	J/molxK	708.41	Joback Method
cpg	495.97	J/molxK	751.14	Joback Method
cpg	510.32	J/molxK	793.87	Joback Method
cpg	523.50	J/molxK	836.61	Joback Method
cpg	535.63	J/molxK	879.34	Joback Method
cpg	546.87	J/molxK	922.07	Joback Method
dvisc	0.0015077	Paxs	379.41	Joback Method
dvisc	0.0009333	Paxs	427.12	Joback Method
dvisc	0.0006361	Paxs	474.83	Joback Method
dvisc	0.0004651	Paxs	522.55	Joback Method
dvisc	0.0003583	Paxs	570.26	Joback Method
dvisc	0.0002874	Paxs	617.97	Joback Method
dvisc	0.0002379	Paxs	665.68	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C613592&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C613592&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.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>mccvol:</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

**tf:** Normal melting (fusion) point

**vc:** Critical Volume

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