

# Naphthalene, 2-hexyl-

<b>Inchi:</b>	InChI=1S/C16H20/c1-2-3-4-5-8-14-11-12-15-9-6-7-10-16(15)13-14/h6-7,9-13H,2-5,8H2,1
<b>InchiKey:</b>	ZGHJVWFQWVPTB-UHFFFAOYSA-N
<b>Formula:</b>	C16H20
<b>SMILES:</b>	CCCCCCc1ccc2ccccc2c1
<b>Mol. weight [g/mol]:</b>	212.33
<b>CAS:</b>	2876-46-2

## Physical Properties

Property code	Value	Unit	Source
gf	293.27	kJ/mol	Joback Method
hf	42.56	kJ/mol	Joback Method
hfus	27.87	kJ/mol	Joback Method
hvap	55.79	kJ/mol	Joback Method
log10ws	-5.75		Crippen Method
logp	4.963		Crippen Method
mvol	193.080	ml/mol	McGowan Method
pc	2079.33	kPa	Joback Method
tb	596.70 ± 3.00	K	NIST Webbook
tb	596.70 ± 3.00	K	NIST Webbook
tb	578.00 ± 8.00	K	NIST Webbook
tb	596.00 ± 5.00	K	NIST Webbook
tc	830.41	K	Joback Method
tf	267.60 ± 2.00	K	NIST Webbook
tf	266.30 ± 1.50	K	NIST Webbook
tf	280.00 ± 3.00	K	NIST Webbook
vc	0.746	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	489.95	J/molxK	616.12	Joback Method
cpg	507.63	J/molxK	651.83	Joback Method
cpg	524.20	J/molxK	687.55	Joback Method
cpg	539.72	J/molxK	723.26	Joback Method

cpg	554.26	J/molxK	758.98	Joback Method
cpg	567.91	J/molxK	794.69	Joback Method
cpg	580.72	J/molxK	830.41	Joback Method
dvisc	0.0017615	Paxs	341.72	Joback Method
dvisc	0.0010486	Paxs	387.45	Joback Method
dvisc	0.0006965	Paxs	433.19	Joback Method
dvisc	0.0005002	Paxs	478.92	Joback Method
dvisc	0.0003806	Paxs	524.65	Joback Method
dvisc	0.0003026	Paxs	570.39	Joback Method
dvisc	0.0002489	Paxs	616.12	Joback Method

## Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>KDB:</b>	<a href="https://www.chemic.org/files/research/kdb/mol/mol803.mol">https://www.chemic.org/files/research/kdb/mol/mol803.mol</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=C2876462&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2876462&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>

## 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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