

# Naphthalene, 2-hydroxy-6-benzoyl-

**Other names:**

6-Benzoyl-2-naphthol  
Methanone, (6-hydroxy-2-naphthalenyl) phenyl  
Ketone, 6-hydroxy-2-naphthyl phenyl  
6-hydroxy-2-naphthyl phenyl ketone

**Inchi:**

InChI=1S/C17H12O2/c18-16-9-8-13-10-15(7-6-14(13)11-16)17(19)12-4-2-1-3-5-12/h1-11

**InchiKey:**

MJKZGSBXCWNUHV-UHFFFAOYSA-N

**Formula:**

C17H12O2

**SMILES:**

O=C(c1ccccc1)c1ccc2cc(O)ccc2c1

**Mol. weight [g/mol]:**

248.28

**CAS:**

52222-87-4

## Physical Properties

Property code	Value	Unit	Source
gf	130.56	kJ/mol	Joback Method
hf	-31.44	kJ/mol	Joback Method
hfus	31.88	kJ/mol	Joback Method
hvap	80.05	kJ/mol	Joback Method
log10ws	-4.78		Crippen Method
logp	3.776		Crippen Method
mcvol	190.850	ml/mol	McGowan Method
pc	3280.28	kPa	Joback Method
tb	800.17	K	Joback Method
tc	1067.14	K	Joback Method
tf	541.06	K	Joback Method
vc	0.665	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	523.47	J/molxK	800.17	Joback Method
cpg	536.43	J/molxK	844.66	Joback Method
cpg	548.61	J/molxK	889.16	Joback Method
cpg	560.21	J/molxK	933.65	Joback Method
cpg	571.47	J/molxK	978.15	Joback Method

cpg	582.60	J/mol×K	1022.64	Joback Method
cpg	593.84	J/mol×K	1067.14	Joback Method
dvisc	0.0002242	Paxs	541.06	Joback Method
dvisc	0.0001231	Paxs	584.25	Joback Method
dvisc	0.0000734	Paxs	627.43	Joback Method
dvisc	0.0000468	Paxs	670.62	Joback Method
dvisc	0.0000315	Paxs	713.80	Joback Method
dvisc	0.0000222	Paxs	756.99	Joback Method
dvisc	0.0000162	Paxs	800.17	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=C52222874&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C52222874&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>

## 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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