

# 2-Naphthalenecarboxylic acid, 3-hydroxy-, phenyl ester

Other names:

2-Naphthoic acid, 3-hydroxy-, phenyl ester

Phenyl 3-hydroxy-2-naphthoate

Phenyl-2-hydroxy-3-naphthoate

Inchi:

InChI=1S/C17H12O3/c18-16-11-13-7-5-4-6-12(13)10-15(16)17(19)20-14-8-2-1-3-9-14/h1

InchiKey:

SRMZHGJLSDITLO-UHFFFAOYSA-N

Formula:

C17H12O3

SMILES:

O=C(Oc1ccccc1)c1cc2ccccc2cc1O

Mol. weight [g/mol]:

264.28

CAS:

7260-11-9

## Physical Properties

Property code	Value	Unit	Source
gf	25.56	kJ/mol	Joback Method
hf	-163.66	kJ/mol	Joback Method
hfus	33.07	kJ/mol	Joback Method
hvap	82.46	kJ/mol	Joback Method
log10ws	-4.91		Crippen Method
logp	3.765		Crippen Method
mcvol	196.720	ml/mol	McGowan Method
pc	3217.33	kPa	Joback Method
tb	822.59	K	Joback Method
tc	1084.86	K	Joback Method
tf	563.29	K	Joback Method
vc	0.683	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	548.23	J/molxK	822.59	Joback Method
cpg	560.87	J/molxK	866.30	Joback Method
cpg	572.72	J/molxK	910.01	Joback Method
cpg	583.97	J/molxK	953.73	Joback Method
cpg	594.81	J/molxK	997.44	Joback Method
cpg	605.43	J/molxK	1041.15	Joback Method

cpg	615.99	J/molxK	1084.86	Joback Method
dvisc	0.0001463	Paxs	563.29	Joback Method
dvisc	0.0000827	Paxs	606.51	Joback Method
dvisc	0.0000504	Paxs	649.72	Joback Method
dvisc	0.0000327	Paxs	692.94	Joback Method
dvisc	0.0000223	Paxs	736.16	Joback Method
dvisc	0.0000159	Paxs	779.37	Joback Method
dvisc	0.0000117	Paxs	822.59	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	532.20	K	21.30	NIST Webbook

## 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=C7260119&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C7260119&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>tb:</b>	Normal Boiling Point Temperature

**tbrp:** Boiling point at reduced pressure  
**tc:** Critical Temperature  
**tf:** Normal melting (fusion) point  
**vc:** Critical Volume

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