

# 1-Naphthoic acid, 2-propylphenyl ester

<b>Inchi:</b>	InChI=1S/C20H18O2/c1-2-8-16-10-4-6-14-19(16)22-20(21)18-13-7-11-15-9-3-5-12-17(15)
<b>InchiKey:</b>	ZDWDYNIHLPAHBU-UHFFFAOYSA-N
<b>Formula:</b>	C20H18O2
<b>SMILES:</b>	CCCc1ccccc1OC(=O)c1cccc2ccccc12
<b>Mol. weight [g/mol]:</b>	290.36

## Physical Properties

Property code	Value	Unit	Source
gf	195.81	kJ/mol	Joback Method
hf	-59.74	kJ/mol	Joback Method
hfus	34.67	kJ/mol	Joback Method
hvap	76.79	kJ/mol	Joback Method
log10ws	-6.58		Crippen Method
logp	5.011		Crippen Method
mvol	233.120	ml/mol	McGowan Method
pc	2038.23	kPa	Joback Method
rinpol	2503.00		NIST Webbook
tb	815.59	K	Joback Method
tc	1057.88	K	Joback Method
tf	497.90	K	Joback Method
vc	0.885	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	664.67	J/molxK	815.59	Joback Method
cpg	729.38	J/molxK	1017.50	Joback Method
cpg	718.46	J/molxK	977.12	Joback Method
cpg	706.63	J/molxK	936.73	Joback Method
cpg	693.78	J/molxK	896.35	Joback Method
cpg	679.83	J/molxK	855.97	Joback Method
cpg	739.47	J/molxK	1057.88	Joback Method
dvisc	0.0001487	Paxs	815.59	Joback Method
dvisc	0.0001798	Paxs	762.64	Joback Method

dvisc	0.0002236	Paxs	709.69	Joback Method
dvisc	0.0002881	Paxs	656.75	Joback Method
dvisc	0.0003879	Paxs	603.80	Joback Method
dvisc	0.0005531	Paxs	550.85	Joback Method
dvisc	0.0008505	Paxs	497.90	Joback Method

## Sources

<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=U355691&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U355691&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>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/64-965-0/1-Naphthoic-acid-2-propylphenyl-ester.pdf>

Generated by Cheméo on 2024-04-17 03:11:58.29938452 +0000 UTC m=+15612767.219961835.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.