

# 1-Naphthaleneacetic acid, pentyl ester

<b>Inchi:</b>	InChI=1S/C17H20O2/c1-2-3-6-12-19-17(18)13-15-10-7-9-14-8-4-5-11-16(14)15/h4-5,7-1
<b>InchiKey:</b>	WTHHZUCMGNXCPB-UHFFFAOYSA-N
<b>Formula:</b>	C17H20O2
<b>SMILES:</b>	CCCCCOC(=O)Cc1cccc2ccccc12
<b>Mol. weight [g/mol]:</b>	256.34

## Physical Properties

Property code	Value	Unit	Source
gf	67.77	kJ/mol	Joback Method
hf	-222.88	kJ/mol	Joback Method
hfus	33.24	kJ/mol	Joback Method
hvap	67.17	kJ/mol	Joback Method
log10ws	-5.03		Crippen Method
logp	4.116		Crippen Method
mvol	214.610	ml/mol	McGowan Method
pc	1987.66	kPa	Joback Method
rinpol	2075.00		NIST Webbook
rinpol	2075.00		NIST Webbook
tb	715.29	K	Joback Method
tc	930.24	K	Joback Method
tf	425.15	K	Joback Method
vc	0.826	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	590.52	J/molxK	715.29	Joback Method
cpg	660.26	J/molxK	894.41	Joback Method
cpg	648.14	J/molxK	858.59	Joback Method
cpg	635.17	J/molxK	822.76	Joback Method
cpg	621.28	J/molxK	786.94	Joback Method
cpg	606.42	J/molxK	751.11	Joback Method
cpg	671.58	J/molxK	930.24	Joback Method
dvisc	0.0001959	Paxs	715.29	Joback Method

dvisc	0.0002391	Paxs	666.93	Joback Method
dvisc	0.0003010	Paxs	618.58	Joback Method
dvisc	0.0003940	Paxs	570.22	Joback Method
dvisc	0.0005422	Paxs	521.86	Joback Method
dvisc	0.0007962	Paxs	473.51	Joback Method
dvisc	0.0012762	Paxs	425.15	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>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=U394001&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U394001&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</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

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