

# 1-Naphthoic acid, 2-methylpentyl ester

<b>Inchi:</b>	InChI=1S/C17H20O2/c1-3-7-13(2)12-19-17(18)16-11-6-9-14-8-4-5-10-15(14)16/h4-6,8-1
<b>InchiKey:</b>	IQBIVYNIHNPLJH-UHFFFAOYSA-N
<b>Formula:</b>	C17H20O2
<b>SMILES:</b>	CCCC(C)COC(=O)c1cccc2ccccc12
<b>Mol. weight [g/mol]:</b>	256.34

## Physical Properties

Property code	Value	Unit	Source
gf	65.33	kJ/mol	Joback Method
hf	-228.16	kJ/mol	Joback Method
hfus	29.72	kJ/mol	Joback Method
hvap	66.78	kJ/mol	Joback Method
log10ws	-5.37		Crippen Method
logp	4.433		Crippen Method
mvol	214.610	ml/mol	McGowan Method
pc	2001.91	kPa	Joback Method
rinpol	2129.00		NIST Webbook
rinpol	2129.00		NIST Webbook
tb	714.85	K	Joback Method
tc	933.61	K	Joback Method
tf	410.15	K	Joback Method
vc	0.820	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	591.06	J/molxK	714.85	Joback Method
cpg	661.85	J/molxK	897.15	Joback Method
cpg	649.60	J/molxK	860.69	Joback Method
cpg	636.46	J/molxK	824.23	Joback Method
cpg	622.36	J/molxK	787.77	Joback Method
cpg	607.25	J/molxK	751.31	Joback Method
cpg	673.26	J/molxK	933.61	Joback Method
dvisc	0.0001810	Paxs	714.85	Joback Method

dvisc	0.0002242	Paxs	664.07	Joback Method
dvisc	0.0002878	Paxs	613.28	Joback Method
dvisc	0.0003864	Paxs	562.50	Joback Method
dvisc	0.0005501	Paxs	511.72	Joback Method
dvisc	0.0008465	Paxs	460.93	Joback Method
dvisc	0.0014493	Paxs	410.15	Joback Method

## 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=U355688&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U355688&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>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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