

# 1-Naphthaleneacetic acid, propyl ester

<b>Inchi:</b>	InChI=1S/C15H16O2/c1-2-10-17-15(16)11-13-8-5-7-12-6-3-4-9-14(12)13/h3-9H,2,10-11H
<b>InchiKey:</b>	MZIHQHACSMVIF-UHFFFAOYSA-N
<b>Formula:</b>	C15H16O2
<b>SMILES:</b>	CCCOC(=O)Cc1cccc2ccccc12
<b>Mol. weight [g/mol]:</b>	228.29

## Physical Properties

Property code	Value	Unit	Source
gf	50.93	kJ/mol	Joback Method
hf	-181.60	kJ/mol	Joback Method
hfus	28.06	kJ/mol	Joback Method
hvap	62.72	kJ/mol	Joback Method
log10ws	-4.20		Crippen Method
logp	3.336		Crippen Method
mcvol	186.430	ml/mol	McGowan Method
pc	2377.22	kPa	Joback Method
tb	669.53	K	Joback Method
tc	891.56	K	Joback Method
tf	402.61	K	Joback Method
vc	0.714	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	484.87	J/molxK	669.53	Joback Method
cpg	499.97	J/molxK	706.54	Joback Method
cpg	514.06	J/molxK	743.54	Joback Method
cpg	527.18	J/molxK	780.55	Joback Method
cpg	539.41	J/molxK	817.55	Joback Method
cpg	550.78	J/molxK	854.56	Joback Method
cpg	561.37	J/molxK	891.56	Joback Method
dvisc	0.0013729	Paxs	402.61	Joback Method
dvisc	0.0008852	Paxs	447.10	Joback Method
dvisc	0.0006179	Paxs	491.58	Joback Method

dvisc	0.0004579	Paxs	536.07	Joback Method
dvisc	0.0003552	Paxs	580.56	Joback Method
dvisc	0.0002857	Paxs	625.04	Joback Method
dvisc	0.0002366	Paxs	669.53	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U393437&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393437&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>
<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>

## 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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