

# 1-Naphthoic acid, pent-2-en-4-ynyl ester

<b>Inchi:</b>	InChI=1S/C16H12O2/c1-2-3-6-12-18-16(17)15-11-7-9-13-8-4-5-10-14(13)15/h1,3-11H,12
<b>InchiKey:</b>	GFQDQLYAGSQRIW-UHFFFAOYSA-N
<b>Formula:</b>	C16H12O2
<b>SMILES:</b>	C#CC=CCOC(=O)c1cccc2ccccc12
<b>Mol. weight [g/mol]:</b>	236.27

## Physical Properties

Property code	Value	Unit	Source
gf	362.64	kJ/mol	Joback Method
hf	206.88	kJ/mol	Joback Method
hfus	33.83	kJ/mol	Joback Method
hvap	64.76	kJ/mol	Joback Method
log10ws	-4.84		Crippen Method
logp	3.186		Crippen Method
mvol	187.620	ml/mol	McGowan Method
pc	2637.96	kPa	Joback Method
rinpol	2016.00		NIST Webbook
tb	686.69	K	Joback Method
tc	928.56	K	Joback Method
tf	455.77	K	Joback Method
vc	0.712	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	467.08	J/mol×K	686.69	Joback Method
cpg	480.86	J/mol×K	727.00	Joback Method
cpg	493.59	J/mol×K	767.31	Joback Method
cpg	505.36	J/mol×K	807.62	Joback Method
cpg	516.29	J/mol×K	847.94	Joback Method
cpg	526.48	J/mol×K	888.25	Joback Method
cpg	536.03	J/mol×K	928.56	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=U308820&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308820&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>cpg:</b>	Ideal gas heat capacity
<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>mccvol:</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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