

# 1-Naphthoic acid, 2,6-dimethylnon-1-en-3-yn-5-yl ester

Inchi:	InChI=1S/C22H24O2/c1-5-9-17(4)21(15-14-16(2)3)24-22(23)20-13-8-11-18-10-6-7-12-19
InchiKey:	ZADXSOUCXHUWLU-UHFFFAOYSA-N
Formula:	C22H24O2
SMILES:	C=C(C)C#CC(OC(=O)c1cccc2ccccc12)C(C)CCC
Mol. weight [g/mol]:	320.42

## Physical Properties

Property code	Value	Unit	Source
gf	387.08	kJ/mol	Joback Method
hf	51.30	kJ/mol	Joback Method
hfus	39.68	kJ/mol	Joback Method
hvap	79.09	kJ/mol	Joback Method
log10ws	-7.22		Crippen Method
logp	5.381		Crippen Method
mvol	272.160	ml/mol	McGowan Method
pc	1600.00	kPa	Joback Method
rinpol	2360.00		NIST Webbook
rinpol	2360.00		NIST Webbook
tb	834.37	K	Joback Method
tc	1067.45	K	Joback Method
tf	541.88	K	Joback Method
vc	1.038	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	796.59	J/mol×K	834.37	Joback Method
cpg	813.42	J/mol×K	873.22	Joback Method
cpg	829.07	J/mol×K	912.06	Joback Method
cpg	843.65	J/mol×K	950.91	Joback Method
cpg	857.24	J/mol×K	989.75	Joback Method
cpg	869.94	J/mol×K	1028.60	Joback Method
cpg	881.85	J/mol×K	1067.45	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U308825&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308825&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>
<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>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>hvp:</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>rinp:</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/66-376-2/1-Naphthoic-acid-2-6-dimethylnon-1-en-3-yn-5-yl-ester.pdf>

Generated by Cheméo on 2024-04-20 11:16:12.521271106 +0000 UTC m=+15901021.441848428.

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