

# 1-Naphthaleneacetic acid, dec-2-yl ester

<b>Inchi:</b>	InChI=1S/C22H30O2/c1-3-4-5-6-7-8-12-18(2)24-22(23)17-20-15-11-14-19-13-9-10-16-2
<b>InchiKey:</b>	DYGPXJXWLAPOJP-UHFFFAOYSA-N
<b>Formula:</b>	C22H30O2
<b>SMILES:</b>	CCCCCCCCC(C)OC(=O)Cc1cccc2ccccc12
<b>Mol. weight [g/mol]:</b>	326.47

## Physical Properties

Property code	Value	Unit	Source
gf	107.43	kJ/mol	Joback Method
hf	-331.36	kJ/mol	Joback Method
hfus	42.67	kJ/mol	Joback Method
hvap	77.91	kJ/mol	Joback Method
log10ws	-7.24		Crippen Method
logp	6.065		Crippen Method
mcvol	285.060	ml/mol	McGowan Method
pc	1356.63	kPa	Joback Method
rinpola	1340.00		NIST Webbook
rinpola	1340.00		NIST Webbook
tb	829.25	K	Joback Method
tc	1037.23	K	Joback Method
tf	466.50	K	Joback Method
vc	1.099	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	874.56	J/molxK	829.25	Joback Method
cpg	951.00	J/molxK	1002.56	Joback Method
cpg	937.62	J/molxK	967.90	Joback Method
cpg	923.35	J/molxK	933.24	Joback Method
cpg	908.13	J/molxK	898.58	Joback Method
cpg	891.89	J/molxK	863.91	Joback Method
cpg	963.56	J/molxK	1037.23	Joback Method
dvisc	0.0001022	Paxs	829.25	Joback Method

dvisc	0.0001292	Paxs	768.79	Joback Method
dvisc	0.0001700	Paxs	708.33	Joback Method
dvisc	0.0002354	Paxs	647.88	Joback Method
dvisc	0.0003487	Paxs	587.42	Joback Method
dvisc	0.0005652	Paxs	526.96	Joback Method
dvisc	0.0010383	Paxs	466.50	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=U415052&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415052&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>

## 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>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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