

# Diethylmalonic acid, 2,4-dichloronaphth-1-yl undecyl ester

Inchi:	InChI=1S/C28H38Cl2O4/c1-4-7-8-9-10-11-12-13-16-19-33-26(31)28(5-2,6-3)27(32)34-25
InchiKey:	ODTJGKPISYMQJS-UHFFFAOYSA-N
Formula:	C28H38Cl2O4
SMILES:	CCCCCCCCCCCCOC(=O)C(CC)(CC)C(=O)Oc1c(Cl)cc(Cl)c2cccc12
Mol. weight [g/mol]:	509.50

## Physical Properties

Property code	Value	Unit	Source
gf	-113.81	kJ/mol	Joback Method
hf	-757.89	kJ/mol	Joback Method
hfus	64.72	kJ/mol	Joback Method
hvap	109.61	kJ/mol	Joback Method
log10ws	-10.28		Crippen Method
logp	8.932		Crippen Method
mvol	401.520	ml/mol	McGowan Method
pc	897.49	kPa	Joback Method
rinpol	3474.00		NIST Webbook
rinpol	3474.00		NIST Webbook
tb	1124.85	K	Joback Method
tc	1379.37	K	Joback Method
tf	708.58	K	Joback Method
vc	1.552	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1330.36	J/molxK	1124.85	Joback Method
cpg	1345.30	J/molxK	1167.27	Joback Method
cpg	1359.11	J/molxK	1209.69	Joback Method
cpg	1371.94	J/molxK	1252.11	Joback Method
cpg	1383.94	J/molxK	1294.53	Joback Method
cpg	1395.24	J/molxK	1336.95	Joback Method
cpg	1406.00	J/molxK	1379.37	Joback Method
dvisc	0.0001470	Paxs	708.58	Joback Method

dvisc	0.0000906	Paxs	777.96	Joback Method
dvisc	0.0000604	Paxs	847.34	Joback Method
dvisc	0.0000428	Paxs	916.71	Joback Method
dvisc	0.0000319	Paxs	986.09	Joback Method
dvisc	0.0000247	Paxs	1055.47	Joback Method
dvisc	0.0000197	Paxs	1124.85	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=U370059&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U370059&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>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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