

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

Inchi:	InChI=1S/C27H36Cl2O4/c1-4-7-8-9-10-11-12-15-18-32-25(30)27(5-2,6-3)26(31)33-24-2
InchiKey:	LKFIVNZIFASHNK-UHFFFAOYSA-N
Formula:	C27H36Cl2O4
SMILES:	CCCCCCCCCOC(=O)C(CC)(CC)C(=O)Oc1c(Cl)cc(Cl)c2cccc12
Mol. weight [g/mol]:	495.48

## Physical Properties

Property code	Value	Unit	Source
gf	-122.23	kJ/mol	Joback Method
hf	-737.25	kJ/mol	Joback Method
hfus	62.13	kJ/mol	Joback Method
hvap	107.38	kJ/mol	Joback Method
log10ws	-9.86		Crippen Method
logp	8.542		Crippen Method
mcvol	387.430	ml/mol	McGowan Method
pc	951.42	kPa	Joback Method
rinsol	3362.00		NIST Webbook
tb	1101.97	K	Joback Method
tc	1349.63	K	Joback Method
tf	697.31	K	Joback Method
vc	1.496	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1268.14	J/molxK	1101.97	Joback Method
cpg	1282.60	J/molxK	1143.25	Joback Method
cpg	1295.97	J/molxK	1184.52	Joback Method
cpg	1308.37	J/molxK	1225.80	Joback Method
cpg	1319.93	J/molxK	1267.07	Joback Method
cpg	1330.77	J/molxK	1308.35	Joback Method
cpg	1341.04	J/molxK	1349.63	Joback Method
dvisc	0.0001664	Paxs	697.31	Joback Method
dvisc	0.0001035	Paxs	764.75	Joback Method

dvisc	0.0000695	Paxs	832.20	Joback Method
dvisc	0.0000496	Paxs	899.64	Joback Method
dvisc	0.0000371	Paxs	967.08	Joback Method
dvisc	0.0000288	Paxs	1034.53	Joback Method
dvisc	0.0000230	Paxs	1101.97	Joback Method

## Sources

<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=U370058&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U370058&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>

## 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>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

Latest version available from:

<https://www.chemeo.com/cid/10-942-4/Diethylmalonic-acid-decyl-2-4-dichloronaphth-1-yl-ester.pdf>

Generated by Cheméo on 2024-04-25 08:16:43.467415766 +0000 UTC m=+16322252.387993088.

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