

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

<b>Inchi:</b>	InChI=1S/C24H30Cl2O4/c1-4-7-8-9-12-15-29-22(27)24(5-2,6-3)23(28)30-21-18-14-11-10
<b>InchiKey:</b>	BSMWTQKPDPVFPU-UHFFFAOYSA-N
<b>Formula:</b>	C24H30Cl2O4
<b>SMILES:</b>	CCCCCCCOC(=O)C(CC)(CC)C(=O)Oc1c(Cl)cc(Cl)c2cccc12
<b>Mol. weight [g/mol]:</b>	453.40

## Physical Properties

Property code	Value	Unit	Source
gf	-147.49	kJ/mol	Joback Method
hf	-675.33	kJ/mol	Joback Method
hfus	54.36	kJ/mol	Joback Method
hvap	100.71	kJ/mol	Joback Method
log10ws	-8.60		Crippen Method
logp	7.372		Crippen Method
mvol	345.160	ml/mol	McGowan Method
pc	1145.99	kPa	Joback Method
rinpol	3080.00		NIST Webbook
rinpol	3080.00		NIST Webbook
tb	1033.33	K	Joback Method
tc	1267.47	K	Joback Method
tf	663.50	K	Joback Method
vc	1.329	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1084.42	J/molxK	1033.33	Joback Method
cpg	1097.77	J/molxK	1072.35	Joback Method
cpg	1110.10	J/molxK	1111.38	Joback Method
cpg	1121.49	J/molxK	1150.40	Joback Method
cpg	1132.04	J/molxK	1189.42	Joback Method
cpg	1141.85	J/molxK	1228.45	Joback Method
cpg	1151.02	J/molxK	1267.47	Joback Method
dvisc	0.0002378	Paxs	663.50	Joback Method

dvisc	0.0001524	Paxs	725.14	Joback Method
dvisc	0.0001047	Paxs	786.78	Joback Method
dvisc	0.0000760	Paxs	848.41	Joback Method
dvisc	0.0000576	Paxs	910.05	Joback Method
dvisc	0.0000452	Paxs	971.69	Joback Method
dvisc	0.0000365	Paxs	1033.33	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U370055&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U370055&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>

## 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

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