

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

<b>Inchi:</b>	InChI=1S/C19H20Cl2O4/c1-4-19(5-2,17(22)24-6-3)18(23)25-16-13-10-8-7-9-12(13)14(20)
<b>InchiKey:</b>	DUVDIWWDPPISEX-UHFFFAOYSA-N
<b>Formula:</b>	C19H20Cl2O4
<b>SMILES:</b>	CCOC(=O)C(CC)(CC)C(=O)Oc1c(Cl)cc(Cl)c2ccccc12
<b>Mol. weight [g/mol]:</b>	383.27

## Physical Properties

Property code	Value	Unit	Source
gf	-189.59	kJ/mol	Joback Method
hf	-572.13	kJ/mol	Joback Method
hfus	41.41	kJ/mol	Joback Method
hvap	89.58	kJ/mol	Joback Method
log10ws	-6.51		Crippen Method
logp	5.422		Crippen Method
mvol	274.710	ml/mol	McGowan Method
pc	1633.81	kPa	Joback Method
rinpol	2619.00		NIST Webbook
rinpol	2619.00		NIST Webbook
tb	918.93	K	Joback Method
tc	1150.20	K	Joback Method
tf	607.15	K	Joback Method
vc	1.048	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	790.00	J/molxK	918.93	Joback Method
cpg	802.03	J/molxK	957.48	Joback Method
cpg	813.08	J/molxK	996.02	Joback Method
cpg	823.23	J/molxK	1034.57	Joback Method
cpg	832.54	J/molxK	1073.11	Joback Method
cpg	841.08	J/molxK	1111.66	Joback Method
cpg	848.94	J/molxK	1150.20	Joback Method
dvisc	0.0004069	Paxs	607.15	Joback Method

dvisc	0.0002756	Paxs	659.11	Joback Method
dvisc	0.0001976	Paxs	711.08	Joback Method
dvisc	0.0001482	Paxs	763.04	Joback Method
dvisc	0.0001153	Paxs	815.00	Joback Method
dvisc	0.0000925	Paxs	866.97	Joback Method
dvisc	0.0000760	Paxs	918.93	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U370048&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U370048&amp;Units=SI</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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