

# Diethylmalonic acid, 2-chloro-6-fluorophenyl tetradecyl ester

Inchi:	InChI=1S/C27H42ClFO4/c1-4-7-8-9-10-11-12-13-14-15-16-17-21-32-25(30)27(5-2,6-3)2
InchiKey:	KLANPTDHODLZSF-UHFFFAOYSA-N
Formula:	C27H42ClFO4
SMILES:	CCCCCCCCCCCCCOC(=O)C(CC)(CC)C(=O)Oc1c(F)cccc1Cl
Mol. weight [g/mol]:	485.07

## Physical Properties

Property code	Value	Unit	Source
gf	-402.13	kJ/mol	Joback Method
hf	-1097.22	kJ/mol	Joback Method
hfus	64.39	kJ/mol	Joback Method
hvap	99.88	kJ/mol	Joback Method
log10ws	-9.38		Crippen Method
logp	8.435		Crippen Method
mcvol	396.420	ml/mol	McGowan Method
pc	825.74	kPa	Joback Method
rinsol	3095.00		NIST Webbook
tb	1039.85	K	Joback Method
tc	1276.78	K	Joback Method
tf	622.76	K	Joback Method
vc	1.544	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1337.95	J/mol×K	1039.85	Joback Method
cpg	1354.55	J/mol×K	1079.34	Joback Method
cpg	1369.60	J/mol×K	1118.83	Joback Method
cpg	1383.18	J/mol×K	1158.31	Joback Method
cpg	1395.38	J/mol×K	1197.80	Joback Method
cpg	1406.30	J/mol×K	1237.29	Joback Method
cpg	1416.02	J/mol×K	1276.78	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=U369684&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U369684&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>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>hvac:</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>mccol:</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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