

# Diethylmalonic acid, 4-fluoro-2-methoxyphenyl pentadecyl ester

Inchi:	InChI=1S/C29H47FO5/c1-5-8-9-10-11-12-13-14-15-16-17-18-19-22-34-27(31)29(6-2,7-3
InchiKey:	VBBMTMAJXSWKNZ-UHFFFAOYSA-N
Formula:	C29H47FO5
SMILES:	CCCCCCCCCCCCCCCCOC(=O)C(CC)(CC)C(=O)Oc1ccc(F)cc1OC
Mol. weight [g/mol]:	494.68

## Physical Properties

Property code	Value	Unit	Source
gf	-478.36	kJ/mol	Joback Method
hf	-1254.98	kJ/mol	Joback Method
hfus	66.56	kJ/mol	Joback Method
hvap	102.36	kJ/mol	Joback Method
log10ws	-9.23		Crippen Method
logp	8.181		Crippen Method
mcvol	418.230	ml/mol	McGowan Method
pc	749.79	kPa	Joback Method
rinsol	2258.00		NIST Webbook
tb	1070.60	K	Joback Method
tc	1323.26	K	Joback Method
tf	637.61	K	Joback Method
vc	1.625	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1467.12	J/molxK	1070.60	Joback Method
cpg	1484.58	J/molxK	1112.71	Joback Method
cpg	1499.96	J/molxK	1154.82	Joback Method
cpg	1513.36	J/molxK	1196.93	Joback Method
cpg	1524.86	J/molxK	1239.04	Joback Method
cpg	1534.56	J/molxK	1281.15	Joback Method
cpg	1542.55	J/molxK	1323.26	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=U370885&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U370885&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>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>rinpola:</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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