

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

Inchi:	InChI=1S/C25H39FO5/c1-5-8-9-10-11-12-13-14-15-18-30-23(27)25(6-2,7-3)24(28)31-21
InchiKey:	VBMMCBUSKLAGPV-UHFFFAOYSA-N
Formula:	C25H39FO5
SMILES:	CCCCCCCCCOC(=O)C(CC)(CC)C(=O)Oc1ccc(F)cc1OC
Mol. weight [g/mol]:	438.57

## Physical Properties

Property code	Value	Unit	Source
gf	-512.04	kJ/mol	Joback Method
hf	-1172.42	kJ/mol	Joback Method
hfus	56.20	kJ/mol	Joback Method
hvap	93.45	kJ/mol	Joback Method
log10ws	-7.56		Crippen Method
logp	6.620		Crippen Method
mcvol	361.870	ml/mol	McGowan Method
pc	936.35	kPa	Joback Method
rinsol	2758.00		NIST Webbook
tb	979.08	K	Joback Method
tc	1198.89	K	Joback Method
tf	592.53	K	Joback Method
vc	1.401	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1217.07	J/molxK	979.08	Joback Method
cpg	1233.37	J/molxK	1015.72	Joback Method
cpg	1248.13	J/molxK	1052.35	Joback Method
cpg	1261.40	J/molxK	1088.99	Joback Method
cpg	1273.23	J/molxK	1125.62	Joback Method
cpg	1283.66	J/molxK	1162.26	Joback Method
cpg	1292.73	J/molxK	1198.89	Joback Method

# Sources

<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=U370888&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U370888&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>mccvol:</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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