

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

Inchi:	InChI=1S/C28H45FO5/c1-5-8-9-10-11-12-13-14-15-16-17-18-21-33-26(30)28(6-2,7-3)27
InchiKey:	BQTPFRRIASFBOH-UHFFFAOYSA-N
Formula:	C28H45FO5
SMILES:	CCCCCCCCCCCCCOC(=O)C(CC)(CC)C(=O)Oc1ccc(F)cc1OC
Mol. weight [g/mol]:	480.65

## Physical Properties

Property code	Value	Unit	Source
gf	-486.78	kJ/mol	Joback Method
hf	-1234.34	kJ/mol	Joback Method
hfus	63.97	kJ/mol	Joback Method
hvap	100.13	kJ/mol	Joback Method
log10ws	-8.81		Crippen Method
logp	7.790		Crippen Method
mvol	404.140	ml/mol	McGowan Method
pc	790.82	kPa	Joback Method
rinpol	3068.00		NIST Webbook
rinpol	3068.00		NIST Webbook
tb	1047.72	K	Joback Method
tc	1290.25	K	Joback Method
tf	626.34	K	Joback Method
vc	1.569	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1404.14	J/mol×K	1047.72	Joback Method
cpg	1421.27	J/mol×K	1088.14	Joback Method
cpg	1436.49	J/mol×K	1128.56	Joback Method
cpg	1449.87	J/mol×K	1168.98	Joback Method
cpg	1461.49	J/mol×K	1209.40	Joback Method
cpg	1471.43	J/mol×K	1249.82	Joback Method
cpg	1479.77	J/mol×K	1290.25	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=U370891&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U370891&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>

# 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>hvp:</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>rinp:</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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