

# Diethylmalonic acid, 2-fluorophenyl octadecyl ester

Inchi:	InChI=1S/C31H51FO4/c1-4-7-8-9-10-11-12-13-14-15-16-17-18-19-20-23-26-35-29(33)31
InchiKey:	BMGPVJAVJDUTDB-UHFFFAOYSA-N
Formula:	C31H51FO4
SMILES:	CCCCCCCCCCCCCCCCCOC(=O)C(CC)(CC)C(=O)Oc1ccccc1F
Mol. weight [g/mol]:	506.73

## Physical Properties

Property code	Value	Unit	Source
gf	-346.89	kJ/mol	Joback Method
hf	-1152.57	kJ/mol	Joback Method
hfus	70.94	kJ/mol	Joback Method
hvap	103.74	kJ/mol	Joback Method
log10ws	-10.37		Crippen Method
logp	9.342		Crippen Method
mcvol	440.540	ml/mol	McGowan Method
pc	688.17	kPa	Joback Method
rinpol	3315.00		NIST Webbook
rinpol	3315.00		NIST Webbook
tb	1088.96	K	Joback Method
tc	1352.40	K	Joback Method
tf	625.40	K	Joback Method
vc	1.718	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1567.38	J/mol×K	1088.96	Joback Method
cpg	1587.16	J/mol×K	1132.87	Joback Method
cpg	1604.97	J/mol×K	1176.77	Joback Method
cpg	1620.98	J/mol×K	1220.68	Joback Method
cpg	1635.35	J/mol×K	1264.59	Joback Method
cpg	1648.22	J/mol×K	1308.49	Joback Method
cpg	1659.76	J/mol×K	1352.40	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=U370142&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U370142&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>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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