

# Dimethylmalonic acid, 2-chloro-6-fluorophenyl octadecyl ester

<b>Inchi:</b>	InChI=1S/C29H46ClFO4/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-23-34-27(32)29
<b>InchiKey:</b>	GVYPKPQNTKTZAL-UHFFFAOYSA-N
<b>Formula:</b>	C29H46ClFO4
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCOC(=O)C(C)(C)C(=O)Oc1c(F)cccc1Cl
<b>Mol. weight [g/mol]:</b>	513.12

## Physical Properties

Property code	Value	Unit	Source
gf	-385.29	kJ/mol	Joback Method
hf	-1138.50	kJ/mol	Joback Method
hfus	69.57	kJ/mol	Joback Method
hvap	104.33	kJ/mol	Joback Method
log10ws	-10.21		Crippen Method
logp	9.215		Crippen Method
mcvol	424.600	ml/mol	McGowan Method
pc	741.64	kPa	Joback Method
rinpol	3297.00		NIST Webbook
rinpol	3297.00		NIST Webbook
tb	1085.61	K	Joback Method
tc	1341.38	K	Joback Method
tf	645.30	K	Joback Method
vc	1.655	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1463.72	J/mol×K	1085.61	Joback Method
cpg	1481.20	J/mol×K	1128.24	Joback Method
cpg	1496.89	J/mol×K	1170.87	Joback Method
cpg	1510.93	J/mol×K	1213.49	Joback Method
cpg	1523.42	J/mol×K	1256.12	Joback Method
cpg	1534.51	J/mol×K	1298.75	Joback Method
cpg	1544.30	J/mol×K	1341.38	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=U361968&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U361968&amp;Units=SI</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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