

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

<b>Inchi:</b>	InChI=1S/C23H34ClFO4/c1-4-5-6-7-8-9-10-11-12-13-17-28-21(26)23(2,3)22(27)29-20-18
<b>InchiKey:</b>	XJPAROOCAYDPSK-UHFFFAOYSA-N
<b>Formula:</b>	C23H34ClFO4
<b>SMILES:</b>	CCCCCCCCCCCCOC(=O)C(C)(C)C(=O)Oc1c(F)cccc1Cl
<b>Mol. weight [g/mol]:</b>	428.96

## Physical Properties

Property code	Value	Unit	Source
gf	-435.81	kJ/mol	Joback Method
hf	-1014.66	kJ/mol	Joback Method
hfus	54.03	kJ/mol	Joback Method
hvap	90.98	kJ/mol	Joback Method
log10ws	-7.70		Crippen Method
logp	6.875		Crippen Method
mvol	340.060	ml/mol	McGowan Method
pc	1043.27	kPa	Joback Method
rinpol	2666.00		NIST Webbook
rinpol	2666.00		NIST Webbook
tb	948.33	K	Joback Method
tc	1162.05	K	Joback Method
tf	577.68	K	Joback Method
vc	1.319	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1091.35	J/molxK	948.33	Joback Method
cpg	1106.67	J/molxK	983.95	Joback Method
cpg	1120.74	J/molxK	1019.57	Joback Method
cpg	1133.61	J/molxK	1055.19	Joback Method
cpg	1145.34	J/molxK	1090.81	Joback Method
cpg	1155.98	J/molxK	1126.43	Joback Method
cpg	1165.59	J/molxK	1162.05	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=U361962&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U361962&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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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