

# Fumaric acid, 2-octyl 2-chloro-6-fluorophenyl ester

Inchi:	InChI=1S/C18H22ClFO4/c1-3-4-5-6-8-13(2)23-16(21)11-12-17(22)24-18-14(19)9-7-10-1
InchiKey:	PWUGCMCFYJGEIY-VAWYXSNFSA-N
Formula:	C18H22ClFO4
SMILES:	CCCCCCC(C)OC(=O)C=CC(=O)Oc1c(F)cccc1Cl
Mol. weight [g/mol]:	356.82

## Physical Properties

Property code	Value	Unit	Source
gf	-402.97	kJ/mol	Joback Method
hf	-790.77	kJ/mol	Joback Method
hfus	45.17	kJ/mol	Joback Method
hvap	80.71	kJ/mol	Joback Method
log10ws	-5.82		Crippen Method
logp	4.843		Crippen Method
mcvol	265.310	ml/mol	McGowan Method
pc	1508.15	kPa	Joback Method
rinpol	2289.00		NIST Webbook
rinpol	2289.00		NIST Webbook
tb	840.88	K	Joback Method
tc	1047.60	K	Joback Method
tf	498.83	K	Joback Method
vc	1.024	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	768.80	J/molxK	840.88	Joback Method
cpg	782.46	J/molxK	875.33	Joback Method
cpg	795.11	J/molxK	909.79	Joback Method
cpg	806.79	J/molxK	944.24	Joback Method
cpg	817.52	J/molxK	978.70	Joback Method
cpg	827.33	J/molxK	1013.15	Joback Method
cpg	836.26	J/molxK	1047.60	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=U405589&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405589&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>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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