

# Fumaric acid, 3-chlorophenyl 2-fluorophenyl ester

<b>Inchi:</b>	InChI=1S/C16H10ClFO4/c17-11-4-3-5-12(10-11)21-15(19)8-9-16(20)22-14-7-2-1-6-13(14)
<b>InchiKey:</b>	OWTFDJDNPSLJIH-CMDGGGOBGSA-N
<b>Formula:</b>	C16H10ClFO4
<b>SMILES:</b>	O=C(C=CC(=O)Oc1ccccc1F)Oc1cccc(Cl)c1
<b>Mol. weight [g/mol]:</b>	320.70

## Physical Properties

Property code	Value	Unit	Source
gf	-304.96	kJ/mol	Joback Method
hf	-507.68	kJ/mol	Joback Method
hfus	37.55	kJ/mol	Joback Method
hvap	78.92	kJ/mol	Joback Method
log10ws	-4.62		Crippen Method
logp	3.546		Crippen Method
mvol	213.370	ml/mol	McGowan Method
pc	2356.49	kPa	Joback Method
rinpol	2322.00		NIST Webbook
rinpol	2322.00		NIST Webbook
tb	822.24	K	Joback Method
tc	1059.97	K	Joback Method
tf	517.71	K	Joback Method
vc	0.810	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	560.45	J/molxK	822.24	Joback Method
cpg	571.39	J/molxK	861.86	Joback Method
cpg	581.25	J/molxK	901.48	Joback Method
cpg	590.10	J/molxK	941.11	Joback Method
cpg	597.97	J/molxK	980.73	Joback Method
cpg	604.89	J/molxK	1020.35	Joback Method
cpg	610.93	J/molxK	1059.97	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=U405852&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405852&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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