

# Fumaric acid, 4-chlorophenyl 2-chloro-6-fluorophenyl ester

<b>Inchi:</b>	InChI=1S/C16H9Cl2FO4/c17-10-4-6-11(7-5-10)22-14(20)8-9-15(21)23-16-12(18)2-1-3-1
<b>InchiKey:</b>	VFEMJDWBUPJGRQ-CMDGGGOBGSA-N
<b>Formula:</b>	C16H9Cl2FO4
<b>SMILES:</b>	O=C(C=CC(=O)Oc1c(F)cccc1Cl)Oc1ccc(Cl)cc1
<b>Mol. weight [g/mol]:</b>	355.14

## Physical Properties

Property code	Value	Unit	Source
gf	-326.52	kJ/mol	Joback Method
hf	-534.89	kJ/mol	Joback Method
hfus	41.36	kJ/mol	Joback Method
hvap	83.97	kJ/mol	Joback Method
log10ws	-5.30		Crippen Method
logp	4.200		Crippen Method
mcvol	225.610	ml/mol	McGowan Method
pc	2241.88	kPa	Joback Method
rinpola	2474.00		NIST Webbook
rinpola	2474.00		NIST Webbook
tb	864.65	K	Joback Method
tc	1105.45	K	Joback Method
tf	560.15	K	Joback Method
vc	0.860	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	578.33	J/molxK	864.65	Joback Method
cpg	587.94	J/molxK	904.78	Joback Method
cpg	596.52	J/molxK	944.92	Joback Method
cpg	604.10	J/molxK	985.05	Joback Method
cpg	610.73	J/molxK	1025.18	Joback Method
cpg	616.43	J/molxK	1065.31	Joback Method
cpg	621.25	J/molxK	1105.45	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U405844&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405844&amp;Units=SI</a>
<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>

# 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

Latest version available from:

<https://www.cheméo.com/cid/116-472-9/Fumaric-acid-4-chlorophenyl-2-chloro-6-fluorophenyl-ester.pdf>

Generated by Cheméo on 2024-05-03 09:46:29.851463259 +0000 UTC m=+17018838.772040575.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.