

# Fumaric acid, 2,6-dichlorophenyl 2-fluorophenyl ester

**Inchi:** InChI=1S/C16H9Cl2FO4/c17-10-4-3-5-11(18)16(10)23-15(21)9-8-14(20)22-13-7-2-1-6-12  
**InchiKey:** KKYPBSRWJNKHBH-CMDGGOBGSA-N  
**Formula:** C16H9Cl2FO4  
**SMILES:** O=C(C=CC(=O)Oc1c(Cl)cccc1Cl)Oc1ccccc1F  
**Mol. weight [g/mol]:** 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
rinpol	2427.00		NIST Webbook
rinpol	2427.00		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>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=U405862&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405862&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>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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