

# Fumaric acid, 2,6-dimethoxyphenyl 3-chlorophenyl ester

<b>Inchi:</b>	InChI=1S/C18H15ClO6/c1-22-14-7-4-8-15(23-2)18(14)25-17(21)10-9-16(20)24-13-6-3-5
<b>InchiKey:</b>	WFSYBIHQZNBT-MDZDMXLPSA-N
<b>Formula:</b>	C18H15ClO6
<b>SMILES:</b>	COc1cccc(OC)c1OC(=O)C=CC(=O)Oc1cccc(Cl)c1
<b>Mol. weight [g/mol]:</b>	362.76

## Physical Properties

Property code	Value	Unit	Source
gf	-312.94	kJ/mol	Joback Method
hf	-628.76	kJ/mol	Joback Method
hfus	41.64	kJ/mol	Joback Method
hvap	89.67	kJ/mol	Joback Method
log10ws	-4.53		Crippen Method
logp	3.424		Crippen Method
mvol	251.520	ml/mol	McGowan Method
pc	1964.82	kPa	Joback Method
rinpol	2730.00		NIST Webbook
rinpol	2730.00		NIST Webbook
tb	918.55	K	Joback Method
tc	1154.65	K	Joback Method
tf	596.64	K	Joback Method
vc	0.941	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	711.32	J/molxK	918.55	Joback Method
cpg	721.81	J/molxK	957.90	Joback Method
cpg	730.93	J/molxK	997.25	Joback Method
cpg	738.68	J/molxK	1036.60	Joback Method
cpg	745.05	J/molxK	1075.95	Joback Method
cpg	750.04	J/molxK	1115.30	Joback Method
cpg	753.65	J/molxK	1154.65	Joback Method
dvisc	0.0001963	Paxs	596.64	Joback Method

dvisc	0.0001288	Paxs	650.29	Joback Method
dvisc	0.0000901	Paxs	703.94	Joback Method
dvisc	0.0000663	Paxs	757.60	Joback Method
dvisc	0.0000508	Paxs	811.25	Joback Method
dvisc	0.0000403	Paxs	864.90	Joback Method
dvisc	0.0000328	Paxs	918.55	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=U405759&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405759&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>

## Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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