

# Fumaric acid, 2-chlorophenyl 2,3-dichlorophenyl ester

Inchi:	InChI=1S/C16H9Cl3O4/c17-10-4-1-2-6-12(10)22-14(20)8-9-15(21)23-13-7-3-5-11(18)16
InchiKey:	YDEGGRUWAGVFPN-CMDGGGOBGSA-N
Formula:	C16H9Cl3O4
SMILES:	O=C(C=CC(=O)Oc1cccc(Cl)c1Cl)Oc1cccc1Cl
Mol. weight [g/mol]:	371.60

## Physical Properties

Property code	Value	Unit	Source
gf	-143.64	kJ/mol	Joback Method
hf	-354.52	kJ/mol	Joback Method
hfus	42.48	kJ/mol	Joback Method
hvap	89.17	kJ/mol	Joback Method
log10ws	-5.66		Crippen Method
logp	4.714		Crippen Method
mcvol	236.080	ml/mol	McGowan Method
pc	2258.96	kPa	Joback Method
rinpol	2687.00		NIST Webbook
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tb	902.81	K	Joback Method
tc	1154.56	K	Joback Method
tf	589.48	K	Joback Method
vc	0.890	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	589.02	J/molxK	902.81	Joback Method
cpg	597.86	J/molxK	944.77	Joback Method
cpg	605.64	J/molxK	986.73	Joback Method
cpg	612.39	J/molxK	1028.69	Joback Method
cpg	618.16	J/molxK	1070.65	Joback Method
cpg	622.99	J/molxK	1112.60	Joback Method
cpg	626.94	J/molxK	1154.56	Joback Method
dvisc	0.0003288	Paxs	589.48	Joback Method

dvisc	0.0002186	Paxs	641.70	Joback Method
dvisc	0.0001545	Paxs	693.92	Joback Method
dvisc	0.0001147	Paxs	746.14	Joback Method
dvisc	0.0000885	Paxs	798.37	Joback Method
dvisc	0.0000705	Paxs	850.59	Joback Method
dvisc	0.0000577	Paxs	902.81	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U405726&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405726&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.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>

## Legend

<b>cpg:</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>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>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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