

# Fumaric acid, 2,4,6-trichlorophenyl 4-chloro-3-methylphenyl ester

<b>Inchi:</b>	InChI=1S/C17H10Cl4O4/c1-9-6-11(2-3-12(9)19)24-15(22)4-5-16(23)25-17-13(20)7-10(18)
<b>InchiKey:</b>	OCWKLDKQHBYFU-SNAWJCMRSA-N
<b>Formula:</b>	C17H10Cl4O4
<b>SMILES:</b>	Cc1cc(OC(=O)C=CC(=O)Oc2c(Cl)cc(Cl)cc2Cl)ccc1Cl
<b>Mol. weight [g/mol]:</b>	420.07

## Physical Properties

Property code	Value	Unit	Source
gf	-166.41	kJ/mol	Joback Method
hf	-413.84	kJ/mol	Joback Method
hfus	48.49	kJ/mol	Joback Method
hvap	97.11	kJ/mol	Joback Method
log10ws	-6.82		Crippen Method
logp	5.676		Crippen Method
mvol	262.410	ml/mol	McGowan Method
pc	1945.79	kPa	Joback Method
rinpol	2914.00		NIST Webbook
rinpol	2914.00		NIST Webbook
tb	973.08	K	Joback Method
tc	1225.02	K	Joback Method
tf	655.71	K	Joback Method
vc	0.996	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	656.59	J/molxK	973.08	Joback Method
cpg	684.51	J/molxK	1183.03	Joback Method
cpg	680.99	J/molxK	1141.04	Joback Method
cpg	676.47	J/molxK	1099.05	Joback Method
cpg	670.91	J/molxK	1057.06	Joback Method
cpg	664.30	J/molxK	1015.07	Joback Method
cpg	687.06	J/molxK	1225.02	Joback Method
dvisc	0.0000448	Paxs	973.08	Joback Method

dvisc	0.0000539	Paxs	920.19	Joback Method
dvisc	0.0000663	Paxs	867.29	Joback Method
dvisc	0.0000837	Paxs	814.39	Joback Method
dvisc	0.0001093	Paxs	761.50	Joback Method
dvisc	0.0001484	Paxs	708.61	Joback Method
dvisc	0.0002116	Paxs	655.71	Joback Method

## Sources

<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=U405959&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405959&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>

## 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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