

# Fumaric acid, 3,5-dimethylphenyl 2,3-dichlorophenyl ester

<b>Inchi:</b>	InChI=1S/C18H14Cl2O4/c1-11-8-12(2)10-13(9-11)23-16(21)6-7-17(22)24-15-5-3-4-14(19)
<b>InchiKey:</b>	QCNMVAZLWTYELH-VOTSOKGWSA-N
<b>Formula:</b>	C18H14Cl2O4
<b>SMILES:</b>	<chem>Cc1cc(C)cc(OC(=O)C=CC(=O)Oc2cccc(Cl)c2Cl)c1</chem>
<b>Mol. weight [g/mol]:</b>	365.21

## Physical Properties

Property code	Value	Unit	Source
gf	-124.50	kJ/mol	Joback Method
hf	-391.53	kJ/mol	Joback Method
hfus	43.07	kJ/mol	Joback Method
hvap	89.90	kJ/mol	Joback Method
log10ws	-5.92		Crippen Method
logp	4.677		Crippen Method
mcvol	252.020	ml/mol	McGowan Method
pc	1933.83	kPa	Joback Method
rinsol	2746.00		NIST Webbook
rinsol	2746.00		NIST Webbook
tb	916.12	K	Joback Method
tc	1159.25	K	Joback Method
tf	594.62	K	Joback Method
vc	0.954	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	679.20	J/molxK	916.12	Joback Method
cpg	720.77	J/molxK	1118.73	Joback Method
cpg	714.61	J/molxK	1078.21	Joback Method
cpg	707.41	J/molxK	1037.68	Joback Method
cpg	699.13	J/molxK	997.16	Joback Method
cpg	689.74	J/molxK	956.64	Joback Method
cpg	725.92	J/molxK	1159.25	Joback Method
dvisc	0.0000515	Paxs	916.12	Joback Method

dvisc	0.0000628	Paxs	862.54	Joback Method
dvisc	0.0000786	Paxs	808.95	Joback Method
dvisc	0.0001016	Paxs	755.37	Joback Method
dvisc	0.0001365	Paxs	701.79	Joback Method
dvisc	0.0001926	Paxs	648.20	Joback Method
dvisc	0.0002892	Paxs	594.62	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=U405743&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405743&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>

## 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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