

# Fumaric acid, 2,4-dichlorophenyl 3-methylbut-2-yl ester

<b>Inchi:</b>	InChI=1S/C15H16Cl2O4/c1-9(2)10(3)20-14(18)6-7-15(19)21-13-5-4-11(16)8-12(13)17/h
<b>InchiKey:</b>	OGYGXLXKIAPJHA-VOTSOKGWSA-N
<b>Formula:</b>	C15H16Cl2O4
<b>SMILES:</b>	CC(C)C(C)OC(=O)C=CC(=O)Oc1ccc(Cl)cc1Cl
<b>Mol. weight [g/mol]:</b>	331.19

## Physical Properties

Property code	Value	Unit	Source
gf	-247.79	kJ/mol	Joback Method
hf	-553.76	kJ/mol	Joback Method
hfus	34.99	kJ/mol	Joback Method
hvap	78.85	kJ/mol	Joback Method
log10ws	-4.67		Crippen Method
logp	4.043		Crippen Method
mcvol	233.510	ml/mol	McGowan Method
pc	1938.95	kPa	Joback Method
rinpol	2166.00		NIST Webbook
rinpol	2166.00		NIST Webbook
tb	809.96	K	Joback Method
tc	1034.25	K	Joback Method
tf	479.35	K	Joback Method
vc	0.881	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	618.34	J/molxK	809.96	Joback Method
cpg	630.62	J/molxK	847.34	Joback Method
cpg	641.91	J/molxK	884.72	Joback Method
cpg	652.21	J/molxK	922.11	Joback Method
cpg	661.57	J/molxK	959.49	Joback Method
cpg	670.00	J/molxK	996.87	Joback Method
cpg	677.52	J/molxK	1034.25	Joback Method
dvisc	0.0006577	Paxs	479.35	Joback Method

dvisc	0.0003613	Paxs	534.45	Joback Method
dvisc	0.0002220	Paxs	589.55	Joback Method
dvisc	0.0001483	Paxs	644.65	Joback Method
dvisc	0.0001055	Paxs	699.76	Joback Method
dvisc	0.0000789	Paxs	754.86	Joback Method
dvisc	0.0000614	Paxs	809.96	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U405692&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405692&amp;Units=SI</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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