

# Fumaric acid, 2-methoxyphenyl 2,2-dichloroethyl ester

Inchi:	InChI=1S/C13H12Cl2O5/c1-18-9-4-2-3-5-10(9)20-13(17)7-6-12(16)19-8-11(14)15/h2-7,1
InchiKey:	ZVLDYCTWCDTEIN-VOTSOKGWSA-N
Formula:	C13H12Cl2O5
SMILES:	COc1ccccc1OC(=O)C=CC(=O)OCC(Cl)Cl
Mol. weight [g/mol]:	319.14

## Physical Properties

Property code	Value	Unit	Source
gf	-357.56	kJ/mol	Joback Method
hf	-627.95	kJ/mol	Joback Method
hfus	34.91	kJ/mol	Joback Method
hvap	76.53	kJ/mol	Joback Method
log10ws	-3.21		Crippen Method
logp	2.504		Crippen Method
mvol	211.200	ml/mol	McGowan Method
pc	2291.52	kPa	Joback Method
rinpol	2184.00		NIST Webbook
rinpol	2184.00		NIST Webbook
tb	782.08	K	Joback Method
tc	1006.01	K	Joback Method
tf	481.52	K	Joback Method
vc	0.793	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	537.02	J/molxK	782.08	Joback Method
cpg	548.10	J/molxK	819.40	Joback Method
cpg	558.23	J/molxK	856.72	Joback Method
cpg	567.42	J/molxK	894.05	Joback Method
cpg	575.69	J/molxK	931.37	Joback Method
cpg	583.03	J/molxK	968.69	Joback Method
cpg	589.46	J/molxK	1006.01	Joback Method
dvisc	0.0005828	Paxs	481.52	Joback Method

dvisc	0.0003415	Paxs	531.61	Joback Method
dvisc	0.0002194	Paxs	581.71	Joback Method
dvisc	0.0001512	Paxs	631.80	Joback Method
dvisc	0.0001100	Paxs	681.89	Joback Method
dvisc	0.0000836	Paxs	731.99	Joback Method
dvisc	0.0000659	Paxs	782.08	Joback Method

## Sources

<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=U405931&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405931&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</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>log<sub>p</sub>:</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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