

# Fumaric acid, 2,4,4-trimethylpentyl 2,3-dichlorophenyl ester

Inchi:	InChI=1S/C18H22Cl2O4/c1-12(10-18(2,3)4)11-23-15(21)8-9-16(22)24-14-7-5-6-13(19)17
InchiKey:	VQXNOVCJKSDXFJ-CMDGGOBGSA-N
Formula:	C18H22Cl2O4
SMILES:	CC(COC(=O)C=CC(=O)Oc1cccc(Cl)c1Cl)CC(C)(C)C
Mol. weight [g/mol]:	373.27

## Physical Properties

Property code	Value	Unit	Source
gf	-217.25	kJ/mol	Joback Method
hf	-619.15	kJ/mol	Joback Method
hfus	38.87	kJ/mol	Joback Method
hvap	84.62	kJ/mol	Joback Method
log10ws	-5.57		Crippen Method
logp	5.071		Crippen Method
mcvol	275.780	ml/mol	McGowan Method
pc	1540.29	kPa	Joback Method
rinpol	2471.00		NIST Webbook
rinpol	2471.00		NIST Webbook
tb	875.81	K	Joback Method
tc	1099.10	K	Joback Method
tf	530.58	K	Joback Method
vc	1.044	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	786.54	J/molxK	875.81	Joback Method
cpg	799.66	J/molxK	913.03	Joback Method
cpg	811.75	J/molxK	950.24	Joback Method
cpg	822.84	J/molxK	987.46	Joback Method
cpg	833.00	J/molxK	1024.67	Joback Method
cpg	842.28	J/molxK	1061.89	Joback Method
cpg	850.75	J/molxK	1099.10	Joback Method
dvisc	0.0003895	Paxs	530.58	Joback Method

dvisc	0.0002131	Paxs	588.12	Joback Method
dvisc	0.0001299	Paxs	645.66	Joback Method
dvisc	0.0000858	Paxs	703.19	Joback Method
dvisc	0.0000604	Paxs	760.73	Joback Method
dvisc	0.0000446	Paxs	818.27	Joback Method
dvisc	0.0000343	Paxs	875.81	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=U405611&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405611&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>
<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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