

# Fumaric acid, 2,6-dichlorophenyl 2,4,6-trichlorophenyl ester

**Inchi:** InChI=1S/C16H7Cl5O4/c17-8-6-11(20)16(12(21)7-8)25-14(23)5-4-13(22)24-15-9(18)2-1  
**InchiKey:** VVSLIWPWPNEULH-SNAWJCMRSA-N  
**Formula:** C16H7Cl5O4  
**SMILES:** O=C(C=CC(=O)Oc1c(Cl)cc(Cl)cc1Cl)Oc1c(Cl)cccc1Cl  
**Mol. weight [g/mol]:** 440.49

## Physical Properties

Property code	Value	Unit	Source
gf	-186.76	kJ/mol	Joback Method
hf	-408.94	kJ/mol	Joback Method
hfus	50.09	kJ/mol	Joback Method
hvap	99.27	kJ/mol	Joback Method
log10ws	-7.03		Crippen Method
logp	6.021		Crippen Method
mcvol	260.560	ml/mol	McGowan Method
pc	2051.17	kPa	Joback Method
rinpol	2906.00		NIST Webbook
rinpol	2906.00		NIST Webbook
tb	987.63	K	Joback Method
tc	1245.05	K	Joback Method
tf	674.36	K	Joback Method
vc	0.989	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	616.43	J/molxK	987.63	Joback Method
cpg	622.68	J/molxK	1030.53	Joback Method
cpg	627.90	J/molxK	1073.44	Joback Method
cpg	632.10	J/molxK	1116.34	Joback Method
cpg	635.34	J/molxK	1159.24	Joback Method
cpg	637.63	J/molxK	1202.15	Joback Method
cpg	639.02	J/molxK	1245.05	Joback Method
dvisc	0.0001984	Paxs	674.36	Joback Method

dvisc	0.0001411	Paxs	726.57	Joback Method
dvisc	0.0001051	Paxs	778.78	Joback Method
dvisc	0.0000812	Paxs	831.00	Joback Method
dvisc	0.0000647	Paxs	883.21	Joback Method
dvisc	0.0000528	Paxs	935.42	Joback Method
dvisc	0.0000441	Paxs	987.63	Joback Method

## Sources

<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=U405865&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405865&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>

## 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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