

# Fumaric acid, di(2,3,4,6-tetrachlorophenyl) ester

Inchi:	InChI=1S/C16H4Cl8O4/c17-5-3-7(19)15(13(23)11(5)21)27-9(25)1-2-10(26)28-16-8(20)4
InchiKey:	XXEKWCKUIYKCMN-OWOJBTEDSA-N
Formula:	C16H4Cl8O4
SMILES:	O=C(C=CC(=O)Oc1c(Cl)cc(Cl)c(Cl)c1Cl)Oc1c(Cl)cc(Cl)c(Cl)c1Cl
Mol. weight [g/mol]:	543.83

## Physical Properties

Property code	Value	Unit	Source
gf	-251.44	kJ/mol	Joback Method
hf	-490.57	kJ/mol	Joback Method
hfus	61.52	kJ/mol	Joback Method
hvap	114.41	kJ/mol	Joback Method
log10ws	-9.08		Crippen Method
logp	7.981		Crippen Method
mcvol	297.280	ml/mol	McGowan Method
pc	1789.39	kPa	Joback Method
rinpol	3542.00		NIST Webbook
tb	1114.86	K	Joback Method
tc	1383.11	K	Joback Method
tf	801.68	K	Joback Method
vc	1.135	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	645.10	J/molxK	1114.86	Joback Method
cpg	647.36	J/molxK	1159.57	Joback Method
cpg	648.51	J/molxK	1204.28	Joback Method
cpg	648.54	J/molxK	1248.99	Joback Method
cpg	647.47	J/molxK	1293.69	Joback Method
cpg	645.31	J/molxK	1338.40	Joback Method
cpg	642.08	J/molxK	1383.11	Joback Method
dvisc	0.0000992	Paxs	801.68	Joback Method
dvisc	0.0000756	Paxs	853.88	Joback Method

dvisc	0.0000595	Paxs	906.07	Joback Method
dvisc	0.0000480	Paxs	958.27	Joback Method
dvisc	0.0000397	Paxs	1010.47	Joback Method
dvisc	0.0000334	Paxs	1062.66	Joback Method
dvisc	0.0000285	Paxs	1114.86	Joback Method

## Sources

<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>
<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=U348205&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U348205&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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