

# Fumaric acid, ethyl pentachlorophenyl ester

<b>Inchi:</b>	InChI=1S/C12H7Cl5O4/c1-2-20-5(18)3-4-6(19)21-12-10(16)8(14)7(13)9(15)11(12)17/h3-
<b>InchiKey:</b>	MSJGEMUIWSXWBP-ONEGZZNKSA-N
<b>Formula:</b>	C12H7Cl5O4
<b>SMILES:</b>	CCOC(=O)C=CC(=O)Oc1c(Cl)c(Cl)c(Cl)c(Cl)c1Cl
<b>Mol. weight [g/mol]:</b>	392.45

## Physical Properties

Property code	Value	Unit	Source
gf	-332.85	kJ/mol	Joback Method
hf	-562.91	kJ/mol	Joback Method
hfus	45.69	kJ/mol	Joback Method
hvap	88.09	kJ/mol	Joback Method
log10ws	-5.60		Crippen Method
logp	4.978		Crippen Method
mvol	227.960	ml/mol	McGowan Method
pc	2153.30	kPa	Joback Method
rinpol	2474.00		NIST Webbook
rinpol	2474.00		NIST Webbook
tb	869.43	K	Joback Method
tc	1106.28	K	Joback Method
tf	602.86	K	Joback Method
vc	0.873	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	509.35	J/molxK	869.43	Joback Method
cpg	516.67	J/molxK	908.91	Joback Method
cpg	523.19	J/molxK	948.38	Joback Method
cpg	528.91	J/molxK	987.86	Joback Method
cpg	533.81	J/molxK	1027.33	Joback Method
cpg	537.91	J/molxK	1066.81	Joback Method
cpg	541.19	J/molxK	1106.28	Joback Method
dvisc	0.0003100	Paxs	602.86	Joback Method

dvisc	0.0002257	Paxs	647.29	Joback Method
dvisc	0.0001712	Paxs	691.72	Joback Method
dvisc	0.0001342	Paxs	736.14	Joback Method
dvisc	0.0001082	Paxs	780.57	Joback Method
dvisc	0.0000893	Paxs	825.00	Joback Method
dvisc	0.0000751	Paxs	869.43	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=U348178&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U348178&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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