

# Fumaric acid, ethyl 2,4,5-trichlorophenyl ester

<b>Inchi:</b>	InChI=1S/C12H9Cl3O4/c1-2-18-11(16)3-4-12(17)19-10-6-8(14)7(13)5-9(10)15/h3-6H,2H
<b>InchiKey:</b>	BAHRNZCHZSZBBX-ONEGZZNKSA-N
<b>Formula:</b>	C12H9Cl3O4
<b>SMILES:</b>	CCOC(=O)C=CC(=O)Oc1cc(Cl)c(Cl)cc1Cl
<b>Mol. weight [g/mol]:</b>	323.56

## Physical Properties

Property code	Value	Unit	Source
gf	-289.73	kJ/mol	Joback Method
hf	-508.49	kJ/mol	Joback Method
hfus	38.08	kJ/mol	Joback Method
hvap	77.99	kJ/mol	Joback Method
log10ws	-4.23		Crippen Method
logp	3.671		Crippen Method
mcvol	203.480	ml/mol	McGowan Method
pc	2377.22	kPa	Joback Method
rinpol	2126.00		NIST Webbook
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tb	784.61	K	Joback Method
tc	1014.85	K	Joback Method
tf	517.98	K	Joback Method
vc	0.774	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	477.14	J/molxK	784.61	Joback Method
cpg	486.61	J/molxK	822.98	Joback Method
cpg	495.27	J/molxK	861.36	Joback Method
cpg	503.14	J/molxK	899.73	Joback Method
cpg	510.23	J/molxK	938.11	Joback Method
cpg	516.55	J/molxK	976.48	Joback Method
cpg	522.10	J/molxK	1014.85	Joback Method
dvisc	0.0005116	Paxs	517.98	Joback Method

dvisc	0.0003469	Paxs	562.42	Joback Method
dvisc	0.0002490	Paxs	606.86	Joback Method
dvisc	0.0001870	Paxs	651.30	Joback Method
dvisc	0.0001457	Paxs	695.73	Joback Method
dvisc	0.0001169	Paxs	740.17	Joback Method
dvisc	0.0000962	Paxs	784.61	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=U348131&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U348131&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>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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>c</sub>vol:</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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