

# Fumaric acid, butyl 2,3,4,5-tetrachlorophenyl ester

<b>Inchi:</b>	InChI=1S/C14H12Cl4O4/c1-2-3-6-21-10(19)4-5-11(20)22-9-7-8(15)12(16)14(18)13(9)17
<b>InchiKey:</b>	MKDPKNSLVYULAO-SNAWJCMRSA-N
<b>Formula:</b>	C14H12Cl4O4
<b>SMILES:</b>	CCCCOC(=O)C=CC(=O)Oc1cc(Cl)c(Cl)c(Cl)c1Cl
<b>Mol. weight [g/mol]:</b>	386.06

## Physical Properties

Property code	Value	Unit	Source
gf	-294.45	kJ/mol	Joback Method
hf	-576.98	kJ/mol	Joback Method
hfus	47.06	kJ/mol	Joback Method
hvap	87.49	kJ/mol	Joback Method
log10ws	-5.75		Crippen Method
logp	5.105		Crippen Method
mcvol	243.900	ml/mol	McGowan Method
pc	1898.60	kPa	Joback Method
rinpol	2572.00		NIST Webbook
rinpol	2572.00		NIST Webbook
tb	872.78	K	Joback Method
tc	1100.74	K	Joback Method
tf	582.96	K	Joback Method
vc	0.935	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	600.80	J/molxK	872.78	Joback Method
cpg	610.09	J/molxK	910.77	Joback Method
cpg	618.50	J/molxK	948.77	Joback Method
cpg	626.03	J/molxK	986.76	Joback Method
cpg	632.71	J/molxK	1024.75	Joback Method
cpg	638.54	J/molxK	1062.74	Joback Method
cpg	643.53	J/molxK	1100.74	Joback Method
dvisc	0.0003294	Paxs	582.96	Joback Method

dvisc	0.0002264	Paxs	631.26	Joback Method
dvisc	0.0001642	Paxs	679.57	Joback Method
dvisc	0.0001242	Paxs	727.87	Joback Method
dvisc	0.0000973	Paxs	776.17	Joback Method
dvisc	0.0000785	Paxs	824.48	Joback Method
dvisc	0.0000648	Paxs	872.78	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=U348242&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U348242&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>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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