

# Fumaric acid, monochloride, pent-4-en-2-yl ester

<b>Other names:</b>	Fumaric acid, monochloride, pent-4-en-2-yl chloride
<b>Inchi:</b>	InChI=1S/C9H11ClO3/c1-3-4-7(2)13-9(12)6-5-8(10)11/h3,5-7H,1,4H2,2H3/b6-5+
<b>InchiKey:</b>	WBAFEBVXXKAFFY-AATRIKPKSA-N
<b>Formula:</b>	C9H11ClO3
<b>SMILES:</b>	C=CCC(C)OC(=O)C=CC(=O)Cl
<b>Mol. weight [g/mol]:</b>	202.63

## Physical Properties

Property code	Value	Unit	Source
gf	-184.25	kJ/mol	Joback Method
hf	-364.84	kJ/mol	Joback Method
hfus	23.05	kJ/mol	Joback Method
hvap	54.81	kJ/mol	Joback Method
log10ws	-2.20		Crippen Method
logp	1.816		Crippen Method
mvol	150.320	ml/mol	McGowan Method
pc	2746.90	kPa	Joback Method
rinpol	1244.00		NIST Webbook
rinpol	1244.00		NIST Webbook
tb	573.31	K	Joback Method
tc	776.30	K	Joback Method
tf	321.36	K	Joback Method
vc	0.574	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	331.27	J/mol×K	573.31	Joback Method
cpg	380.16	J/mol×K	742.47	Joback Method
cpg	371.54	J/mol×K	708.64	Joback Method
cpg	362.36	J/mol×K	674.80	Joback Method
cpg	352.61	J/mol×K	640.97	Joback Method
cpg	342.25	J/mol×K	607.14	Joback Method
cpg	388.25	J/mol×K	776.30	Joback Method

dvisc	0.0002064	Paxs	573.31	Joback Method
dvisc	0.0002680	Paxs	531.32	Joback Method
dvisc	0.0003638	Paxs	489.33	Joback Method
dvisc	0.0005231	Paxs	447.33	Joback Method
dvisc	0.0008108	Paxs	405.34	Joback Method
dvisc	0.0013907	Paxs	363.35	Joback Method
dvisc	0.0027468	Paxs	321.36	Joback Method

## Sources

<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=U348935&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U348935&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>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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>mvol:</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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