

# Fumaric acid, 2-chloropropyl hexyl ester

<b>Inchi:</b>	InChI=1S/C13H21ClO4/c1-3-4-5-6-9-17-12(15)7-8-13(16)18-10-11(2)14/h7-8,11H,3-6,9-
<b>InchiKey:</b>	IXVHEHRRSGIADG-BQYQJAHWSA-N
<b>Formula:</b>	C13H21ClO4
<b>SMILES:</b>	CCCCCCOC(=O)C=CC(=O)OCC(C)Cl
<b>Mol. weight [g/mol]:</b>	276.76

## Physical Properties

Property code	Value	Unit	Source
gf	-343.41	kJ/mol	Joback Method
hf	-705.05	kJ/mol	Joback Method
hfus	35.88	kJ/mol	Joback Method
hvap	66.80	kJ/mol	Joback Method
log10ws	-3.11		Crippen Method
logp	2.837		Crippen Method
mcvol	216.850	ml/mol	McGowan Method
pc	1809.23	kPa	Joback Method
rinsol	1869.00		NIST Webbook
tb	690.57	K	Joback Method
tc	879.81	K	Joback Method
tf	390.43	K	Joback Method
vc	0.835	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	576.14	J/molxK	690.57	Joback Method
cpg	590.21	J/molxK	722.11	Joback Method
cpg	603.52	J/molxK	753.65	Joback Method
cpg	616.10	J/molxK	785.19	Joback Method
cpg	627.95	J/molxK	816.73	Joback Method
cpg	639.10	J/molxK	848.27	Joback Method
cpg	649.56	J/molxK	879.81	Joback Method
dvisc	0.0015002	Paxs	390.43	Joback Method
dvisc	0.0007342	Paxs	440.45	Joback Method

dvisc	0.0004157	Paxs	490.48	Joback Method
dvisc	0.0002615	Paxs	540.50	Joback Method
dvisc	0.0001779	Paxs	590.52	Joback Method
dvisc	0.0001286	Paxs	640.55	Joback Method
dvisc	0.0000974	Paxs	690.57	Joback Method

## Sources

<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=U348564&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U348564&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>

## 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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