

# Fumaric acid, 2-chloropropyl octyl ester

<b>Inchi:</b>	InChI=1S/C15H25ClO4/c1-3-4-5-6-7-8-11-19-14(17)9-10-15(18)20-12-13(2)16/h9-10,13H
<b>InchiKey:</b>	FJYBULSVGOZXRU-MDZDMXLPSA-N
<b>Formula:</b>	C15H25ClO4
<b>SMILES:</b>	CCCCCCCCOC(=O)C=CC(=O)OCC(C)Cl
<b>Mol. weight [g/mol]:</b>	304.81

## Physical Properties

Property code	Value	Unit	Source
gf	-326.57	kJ/mol	Joback Method
hf	-746.33	kJ/mol	Joback Method
hfus	41.06	kJ/mol	Joback Method
hvap	71.25	kJ/mol	Joback Method
log10ws	-3.95		Crippen Method
logp	3.617		Crippen Method
mvol	245.030	ml/mol	McGowan Method
pc	1546.35	kPa	Joback Method
rinpol	2074.00		NIST Webbook
tb	736.33	K	Joback Method
tc	923.90	K	Joback Method
tf	412.97	K	Joback Method
vc	0.947	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	684.90	J/mol×K	736.33	Joback Method
cpg	699.85	J/mol×K	767.59	Joback Method
cpg	713.98	J/mol×K	798.85	Joback Method
cpg	727.31	J/mol×K	830.11	Joback Method
cpg	739.86	J/mol×K	861.38	Joback Method
cpg	751.63	J/mol×K	892.64	Joback Method
cpg	762.66	J/mol×K	923.90	Joback Method
dvisc	0.0012420	Paxs	412.97	Joback Method
dvisc	0.0005930	Paxs	466.86	Joback Method

dvisc	0.0003299	Paxs	520.76	Joback Method
dvisc	0.0002049	Paxs	574.65	Joback Method
dvisc	0.0001381	Paxs	628.54	Joback Method
dvisc	0.0000991	Paxs	682.44	Joback Method
dvisc	0.0000746	Paxs	736.33	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=U348566&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U348566&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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