

# Fumaric acid, 2-chloropropyl heptyl ester

<b>Inchi:</b>	InChI=1S/C14H23ClO4/c1-3-4-5-6-7-10-18-13(16)8-9-14(17)19-11-12(2)15/h8-9,12H,3-7
<b>InchiKey:</b>	KFSJHJR XOISCGF-CMDGGOBGSA-N
<b>Formula:</b>	C14H23ClO4
<b>SMILES:</b>	CCCCCCCOC(=O)C=CC(=O)OCC(C)Cl
<b>Mol. weight [g/mol]:</b>	290.78

## Physical Properties

Property code	Value	Unit	Source
gf	-334.99	kJ/mol	Joback Method
hf	-725.69	kJ/mol	Joback Method
hfus	38.47	kJ/mol	Joback Method
hvap	69.03	kJ/mol	Joback Method
log10ws	-3.53		Crippen Method
logp	3.227		Crippen Method
mvol	230.940	ml/mol	McGowan Method
pc	1670.06	kPa	Joback Method
rinpol	1973.00		NIST Webbook
rinpol	1973.00		NIST Webbook
tb	713.45	K	Joback Method
tc	901.62	K	Joback Method
tf	401.70	K	Joback Method
vc	0.890	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	629.92	J/molxK	713.45	Joback Method
cpg	644.45	J/molxK	744.81	Joback Method
cpg	658.19	J/molxK	776.17	Joback Method
cpg	671.17	J/molxK	807.53	Joback Method
cpg	683.39	J/molxK	838.89	Joback Method
cpg	694.87	J/molxK	870.25	Joback Method
cpg	705.63	J/molxK	901.62	Joback Method
dvisc	0.0013688	Paxs	401.70	Joback Method

dvisc	0.0006615	Paxs	453.66	Joback Method
dvisc	0.0003712	Paxs	505.62	Joback Method
dvisc	0.0002320	Paxs	557.58	Joback Method
dvisc	0.0001571	Paxs	609.53	Joback Method
dvisc	0.0001131	Paxs	661.49	Joback Method
dvisc	0.0000854	Paxs	713.45	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>
<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=U348565&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U348565&amp;Units=SI</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

Latest version available from:

<https://www.chemeo.com/cid/114-756-6/Fumaric-acid-2-chloropropyl-heptyl-ester.pdf>

Generated by Cheméo on 2024-04-29 20:14:04.018582595 +0000 UTC m=+16710892.939159911.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.