

# Fumaric acid, 10-chlorodecyl pentyl ester

<b>Inchi:</b>	InChI=1S/C19H33ClO4/c1-2-3-11-16-23-18(21)13-14-19(22)24-17-12-9-7-5-4-6-8-10-15
<b>InchiKey:</b>	AHHWRJVIUFWBFV-BUHFOSPRSA-N
<b>Formula:</b>	C19H33ClO4
<b>SMILES:</b>	CCCCCOC(=O)C=CC(=O)OCCCCCCCCCCCCI
<b>Mol. weight [g/mol]:</b>	360.92

## Physical Properties

Property code	Value	Unit	Source
gf	-290.45	kJ/mol	Joback Method
hf	-823.61	kJ/mol	Joback Method
hfus	54.94	kJ/mol	Joback Method
hvap	80.54	kJ/mol	Joback Method
log10ws	-5.51		Crippen Method
logp	5.179		Crippen Method
mvol	301.390	ml/mol	McGowan Method
pc	1160.87	kPa	Joback Method
rinpol	2608.00		NIST Webbook
rinpol	2608.00		NIST Webbook
tb	828.29	K	Joback Method
tc	1018.24	K	Joback Method
tf	473.05	K	Joback Method
vc	1.177	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	914.69	J/molxK	828.29	Joback Method
cpg	931.08	J/molxK	859.95	Joback Method
cpg	946.49	J/molxK	891.61	Joback Method
cpg	960.96	J/molxK	923.26	Joback Method
cpg	974.51	J/molxK	954.92	Joback Method
cpg	987.18	J/molxK	986.58	Joback Method
cpg	998.98	J/molxK	1018.24	Joback Method
dvisc	0.0006884	Paxs	473.05	Joback Method

dvisc	0.0003413	Paxs	532.26	Joback Method
dvisc	0.0001947	Paxs	591.46	Joback Method
dvisc	0.0001231	Paxs	650.67	Joback Method
dvisc	0.0000839	Paxs	709.88	Joback Method
dvisc	0.0000607	Paxs	769.08	Joback Method
dvisc	0.0000460	Paxs	828.29	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U348308&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U348308&amp;Units=SI</a>
<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>

## 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/97-670-1/Fumaric-acid-10-chlorodecyl-pentyl-ester.pdf>

Generated by Cheméo on 2024-04-24 16:58:28.236511394 +0000 UTC m=+16267157.157088706.

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