

# Fumaric acid, 2-chloro-5-methylphenyl dodecyl ester

<b>Inchi:</b>	InChI=1S/C23H33ClO4/c1-3-4-5-6-7-8-9-10-11-12-17-27-22(25)15-16-23(26)28-21-18-19
<b>InchiKey:</b>	PKAHTTPOKHAOIZ-FOCLMDBBSA-N
<b>Formula:</b>	C23H33ClO4
<b>SMILES:</b>	CCCCCCCCCCCCOC(=O)C=CC(=O)Oc1cc(C)ccc1Cl
<b>Mol. weight [g/mol]:</b>	408.96

## Physical Properties

Property code	Value	Unit	Source
gf	-163.62	kJ/mol	Joback Method
hf	-692.58	kJ/mol	Joback Method
hfus	58.56	kJ/mol	Joback Method
hvap	93.05	kJ/mol	Joback Method
log10ws	-7.52		Crippen Method
logp	6.574		Crippen Method
mvol	333.990	ml/mol	McGowan Method
pc	1097.90	kPa	Joback Method
rinpol	2973.00		NIST Webbook
rinpol	2973.00		NIST Webbook
tb	956.45	K	Joback Method
tc	1172.53	K	Joback Method
tf	569.59	K	Joback Method
vc	1.292	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1055.83	J/molxK	956.45	Joback Method
cpg	1071.02	J/molxK	992.46	Joback Method
cpg	1084.98	J/molxK	1028.48	Joback Method
cpg	1097.77	J/molxK	1064.49	Joback Method
cpg	1109.42	J/molxK	1100.50	Joback Method
cpg	1119.99	J/molxK	1136.51	Joback Method
cpg	1129.52	J/molxK	1172.53	Joback Method
dvisc	0.0002810	Paxs	569.59	Joback Method

dvisc	0.0001561	Paxs	634.07	Joback Method
dvisc	0.0000967	Paxs	698.54	Joback Method
dvisc	0.0000649	Paxs	763.02	Joback Method
dvisc	0.0000464	Paxs	827.50	Joback Method
dvisc	0.0000348	Paxs	891.97	Joback Method
dvisc	0.0000271	Paxs	956.45	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=U348263&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U348263&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/17-891-4/Fumaric-acid-2-chloro-5-methylphenyl-dodecyl-ester.pdf>

Generated by Cheméo on 2024-05-01 22:07:57.61048381 +0000 UTC m=+16890526.531061125.

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