

# Phthalic acid, 2-(3-chlorophenyl)ethyl undecyl ester

Inchi:	InChI=1S/C27H35ClO4/c1-2-3-4-5-6-7-8-9-12-19-31-26(29)24-16-10-11-17-25(24)27(30)
InchiKey:	FRXAMPFKFUOWTA-UHFFFAOYSA-N
Formula:	C27H35ClO4
SMILES:	CCCCCCCCCOC(=O)c1cccc1C(=O)OCCc1cccc(Cl)c1
Mol. weight [g/mol]:	459.02

## Physical Properties

Property code	Value	Unit	Source
gf	-97.75	kJ/mol	Joback Method
hf	-655.83	kJ/mol	Joback Method
hfus	62.76	kJ/mol	Joback Method
hvap	104.27	kJ/mol	Joback Method
log10ws	-8.86		Crippen Method
logp	7.427		Crippen Method
mcvol	370.890	ml/mol	McGowan Method
pc	1025.31	kPa	Joback Method
rinpol	3406.00		NIST Webbook
rinpol	3406.00		NIST Webbook
tb	1070.49	K	Joback Method
tc	1310.58	K	Joback Method
tf	646.17	K	Joback Method
vc	1.429	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1219.77	J/molxK	1070.49	Joback Method
cpg	1270.70	J/molxK	1270.57	Joback Method
cpg	1263.38	J/molxK	1230.55	Joback Method
cpg	1254.69	J/molxK	1190.54	Joback Method
cpg	1244.58	J/molxK	1150.52	Joback Method
cpg	1232.96	J/molxK	1110.51	Joback Method
cpg	1276.75	J/molxK	1310.58	Joback Method
dvisc	0.0000175	Paxs	1070.49	Joback Method

dvisc	0.0000224	Paxs	999.77	Joback Method
dvisc	0.0000297	Paxs	929.05	Joback Method
dvisc	0.0000413	Paxs	858.33	Joback Method
dvisc	0.0000610	Paxs	787.61	Joback Method
dvisc	0.0000973	Paxs	716.89	Joback Method
dvisc	0.0001718	Paxs	646.17	Joback Method

## Sources

<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=U377861&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377861&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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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