

# Phthalic acid, 2-(4-chlorophenoxy)ethyl tridecyl ester

Inchi:	InChI=1S/C29H39ClO5/c1-2-3-4-5-6-7-8-9-10-11-16-21-34-28(31)24-17-12-13-18-25(24)
InchiKey:	PQYKVGSGAKUBW-UHFFFAOYSA-N
Formula:	C29H39ClO5
SMILES:	CCCCCCCCCCCCOC(=O)c1ccccc1C(=O)OCCOc1ccccc1Cl
Mol. weight [g/mol]:	503.07

## Physical Properties

Property code	Value	Unit	Source
gf	-185.91	kJ/mol	Joback Method
hf	-829.33	kJ/mol	Joback Method
hfus	69.13	kJ/mol	Joback Method
hvap	111.13	kJ/mol	Joback Method
log10ws	-9.43		Crippen Method
logp	8.044		Crippen Method
mcvol	404.940	ml/mol	McGowan Method
pc	900.72	kPa	Joback Method
rinpol	3681.00		NIST Webbook
tb	1138.67	K	Joback Method
tc	1399.41	K	Joback Method
tf	690.94	K	Joback Method
vc	1.558	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1366.45	J/molxK	1138.67	Joback Method
cpg	1378.13	J/molxK	1182.13	Joback Method
cpg	1387.70	J/molxK	1225.58	Joback Method
cpg	1395.23	J/molxK	1269.04	Joback Method
cpg	1400.82	J/molxK	1312.49	Joback Method
cpg	1404.53	J/molxK	1355.95	Joback Method
cpg	1406.45	J/molxK	1399.41	Joback Method
dvisc	0.0000927	Paxs	690.94	Joback Method
dvisc	0.0000525	Paxs	765.56	Joback Method

dvisc	0.0000329	Paxs	840.18	Joback Method
dvisc	0.0000222	Paxs	914.81	Joback Method
dvisc	0.0000159	Paxs	989.43	Joback Method
dvisc	0.0000120	Paxs	1064.05	Joback Method
dvisc	0.0000093	Paxs	1138.67	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=U377914&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377914&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>mccvol:</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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