

# Phthalic acid, 4-chloro-2-methylphenyl tetradecyl ester

Inchi:	InChI=1S/C29H39ClO4/c1-3-4-5-6-7-8-9-10-11-12-13-16-21-33-28(31)25-17-14-15-18-20
InchiKey:	JXIUUQBIIIMUKJG-UHFFFAOYSA-N
Formula:	C29H39ClO4
SMILES:	CCCCCCCCCCCCCOC(=O)c1cccc1C(=O)Oc1ccc(Cl)cc1C
Mol. weight [g/mol]:	487.07

## Physical Properties

Property code	Value	Unit	Source
gf	-90.54	kJ/mol	Joback Method
hf	-708.58	kJ/mol	Joback Method
hfus	67.55	kJ/mol	Joback Method
hvap	109.38	kJ/mol	Joback Method
log10ws	-10.40		Crippen Method
logp	8.726		Crippen Method
mcvol	399.070	ml/mol	McGowan Method
pc	901.80	kPa	Joback Method
rinpol	3558.00		NIST Webbook
rinpol	3558.00		NIST Webbook
tb	1121.23	K	Joback Method
tc	1375.45	K	Joback Method
tf	681.23	K	Joback Method
vc	1.540	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1341.00	J/molxK	1121.23	Joback Method
cpg	1354.13	J/molxK	1163.60	Joback Method
cpg	1365.43	J/molxK	1205.97	Joback Method
cpg	1374.99	J/molxK	1248.34	Joback Method
cpg	1382.91	J/molxK	1290.71	Joback Method
cpg	1389.27	J/molxK	1333.08	Joback Method
cpg	1394.16	J/molxK	1375.45	Joback Method
dvisc	0.0001223	Paxs	681.23	Joback Method

dvisc	0.0000705	Paxs	754.56	Joback Method
dvisc	0.0000448	Paxs	827.90	Joback Method
dvisc	0.0000306	Paxs	901.23	Joback Method
dvisc	0.0000222	Paxs	974.56	Joback Method
dvisc	0.0000168	Paxs	1047.90	Joback Method
dvisc	0.0000132	Paxs	1121.23	Joback Method

## Sources

<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=U356380&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U356380&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>

## 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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