

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

<b>Inchi:</b>	InChI=1S/C24H29ClO5/c1-2-3-4-5-6-11-16-29-23(26)19-12-7-8-13-20(19)24(27)30-18-17
<b>InchiKey:</b>	HKESLZLWLPTJTC-UHFFFAOYSA-N
<b>Formula:</b>	C24H29ClO5
<b>SMILES:</b>	CCCCCCCCOC(=O)c1cccc1C(=O)OCCOc1cccc1Cl
<b>Mol. weight [g/mol]:</b>	432.94

## Physical Properties

Property code	Value	Unit	Source
gf	-228.01	kJ/mol	Joback Method
hf	-726.13	kJ/mol	Joback Method
hfus	56.18	kJ/mol	Joback Method
hvap	100.00	kJ/mol	Joback Method
log10ws	-7.34		Crippen Method
logp	6.093		Crippen Method
mvol	334.490	ml/mol	McGowan Method
pc	1229.42	kPa	Joback Method
rinpol	3179.00		NIST Webbook
rinpol	3179.00		NIST Webbook
tb	1024.27	K	Joback Method
tc	1256.29	K	Joback Method
tf	634.59	K	Joback Method
vc	1.278	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1064.46	J/molxK	1024.27	Joback Method
cpg	1076.32	J/molxK	1062.94	Joback Method
cpg	1086.58	J/molxK	1101.61	Joback Method
cpg	1095.28	J/molxK	1140.28	Joback Method
cpg	1102.45	J/molxK	1178.95	Joback Method
cpg	1108.13	J/molxK	1217.62	Joback Method
cpg	1112.35	J/molxK	1256.29	Joback Method
dvisc	0.0001726	Paxs	634.59	Joback Method

dvisc	0.0001025	Paxs	699.54	Joback Method
dvisc	0.0000665	Paxs	764.48	Joback Method
dvisc	0.0000461	Paxs	829.43	Joback Method
dvisc	0.0000338	Paxs	894.38	Joback Method
dvisc	0.0000258	Paxs	959.32	Joback Method
dvisc	0.0000204	Paxs	1024.27	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=U377909&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377909&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>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> 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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