

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

Inchi:	InChI=1S/C26H33ClO5/c1-2-3-4-5-6-7-8-13-18-31-25(28)21-14-9-10-15-22(21)26(29)32
InchiKey:	SMPUWWFFERKOEJ-UHFFFAOYSA-N
Formula:	C26H33ClO5
SMILES:	CCCCCCCCCOC(=O)c1ccccc1C(=O)OCCOc1ccccc1Cl
Mol. weight [g/mol]:	460.99

## Physical Properties

Property code	Value	Unit	Source
gf	-211.17	kJ/mol	Joback Method
hf	-767.41	kJ/mol	Joback Method
hfus	61.36	kJ/mol	Joback Method
hvap	104.45	kJ/mol	Joback Method
log10ws	-8.18		Crippen Method
logp	6.873		Crippen Method
mvol	362.670	ml/mol	McGowan Method
pc	1079.22	kPa	Joback Method
rinpol	3384.00		NIST Webbook
rinpol	3384.00		NIST Webbook
tb	1070.03	K	Joback Method
tc	1310.02	K	Joback Method
tf	657.13	K	Joback Method
vc	1.391	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1184.40	J/molxK	1070.03	Joback Method
cpg	1196.19	J/molxK	1110.03	Joback Method
cpg	1206.22	J/molxK	1150.03	Joback Method
cpg	1214.54	J/molxK	1190.02	Joback Method
cpg	1221.21	J/molxK	1230.02	Joback Method
cpg	1226.25	J/molxK	1270.02	Joback Method
cpg	1229.74	J/molxK	1310.02	Joback Method
dvisc	0.0001356	Paxs	657.13	Joback Method

dvisc	0.0000789	Paxs	725.95	Joback Method
dvisc	0.0000504	Paxs	794.76	Joback Method
dvisc	0.0000346	Paxs	863.58	Joback Method
dvisc	0.0000251	Paxs	932.40	Joback Method
dvisc	0.0000191	Paxs	1001.21	Joback Method
dvisc	0.0000150	Paxs	1070.03	Joback Method

## Sources

<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=U377911&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377911&amp;Units=SI</a>
<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>

## 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>m<sub>cvol</sub>:</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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