

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

Inchi:	InChI=1S/C23H27ClO5/c1-2-3-4-5-10-15-28-22(25)18-11-6-7-12-19(18)23(26)29-17-16-2
InchiKey:	ZIRLTJWGQJBHFE-UHFFFAOYSA-N
Formula:	C23H27ClO5
SMILES:	CCCCCCCOC(=O)c1ccccc1C(=O)OCCOc1ccccc1Cl
Mol. weight [g/mol]:	418.91

## Physical Properties

Property code	Value	Unit	Source
gf	-236.43	kJ/mol	Joback Method
hf	-705.49	kJ/mol	Joback Method
hfus	53.59	kJ/mol	Joback Method
hvap	97.78	kJ/mol	Joback Method
log10ws	-6.92		Crippen Method
logp	5.703		Crippen Method
mvol	320.400	ml/mol	McGowan Method
pc	1316.56	kPa	Joback Method
rinpol	3082.00		NIST Webbook
rinpol	3082.00		NIST Webbook
tb	1001.39	K	Joback Method
tc	1230.96	K	Joback Method
tf	623.32	K	Joback Method
vc	1.222	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1005.06	J/molxK	1001.39	Joback Method
cpg	1016.94	J/molxK	1039.65	Joback Method
cpg	1027.29	J/molxK	1077.91	Joback Method
cpg	1036.14	J/molxK	1116.18	Joback Method
cpg	1043.51	J/molxK	1154.44	Joback Method
cpg	1049.44	J/molxK	1192.70	Joback Method
cpg	1053.95	J/molxK	1230.96	Joback Method
dvisc	0.0001940	Paxs	623.32	Joback Method

dvisc	0.0001164	Paxs	686.33	Joback Method
dvisc	0.0000761	Paxs	749.34	Joback Method
dvisc	0.0000531	Paxs	812.36	Joback Method
dvisc	0.0000390	Paxs	875.37	Joback Method
dvisc	0.0000299	Paxs	938.38	Joback Method
dvisc	0.0000237	Paxs	1001.39	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=U377908&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377908&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>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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