

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

Inchi:	InChI=1S/C21H23ClO5/c1-2-3-8-13-26-20(23)16-9-4-5-10-17(16)21(24)27-15-14-25-19-
InchiKey:	ZXQVFFOMYMKEDL-UHFFFAOYSA-N
Formula:	C21H23ClO5
SMILES:	CCCCCOC(=O)c1cccc1C(=O)OCCOc1cccc1Cl
Mol. weight [g/mol]:	390.86

## Physical Properties

Property code	Value	Unit	Source
gf	-253.27	kJ/mol	Joback Method
hf	-664.21	kJ/mol	Joback Method
hfus	48.41	kJ/mol	Joback Method
hvap	93.32	kJ/mol	Joback Method
log10ws	-6.08		Crippen Method
logp	4.923		Crippen Method
mvol	292.220	ml/mol	McGowan Method
pc	1521.12	kPa	Joback Method
rinpol	2880.00		NIST Webbook
tb	955.63	K	Joback Method
tc	1183.11	K	Joback Method
tf	600.78	K	Joback Method
vc	1.111	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	887.62	J/molxK	955.63	Joback Method
cpg	933.04	J/molxK	1145.20	Joback Method
cpg	926.74	J/molxK	1107.29	Joback Method
cpg	919.07	J/molxK	1069.37	Joback Method
cpg	910.01	J/molxK	1031.46	Joback Method
cpg	899.53	J/molxK	993.54	Joback Method
cpg	937.99	J/molxK	1183.11	Joback Method
dvisc	0.0000319	Paxs	955.63	Joback Method
dvisc	0.0000400	Paxs	896.49	Joback Method

dvisc	0.0000519	Paxs	837.35	Joback Method
dvisc	0.0000699	Paxs	778.21	Joback Method
dvisc	0.0000988	Paxs	719.06	Joback Method
dvisc	0.0001488	Paxs	659.92	Joback Method
dvisc	0.0002427	Paxs	600.78	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=U377906&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377906&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>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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