

# Phthalic acid, 4-chloro-2-methoxybenzyl undecyl ester

**Inchi:** InChI=1S/C27H35ClO5/c1-3-4-5-6-7-8-9-10-13-18-32-26(29)23-14-11-12-15-24(23)27(30)1-2  
**InchiKey:** UEYPMKNSBXRJBJ-UHFFFAOYSA-N  
**Formula:** C27H35ClO5  
**SMILES:** CCCCCCCCCCOC(=O)c1ccccc1C(=O)OCc1ccc(Cl)cc1OC  
**Mol. weight [g/mol]:** 475.02

## Physical Properties

Property code	Value	Unit	Source
gf	-212.38	kJ/mol	Joback Method
hf	-799.52	kJ/mol	Joback Method
hfus	63.56	kJ/mol	Joback Method
hvap	107.34	kJ/mol	Joback Method
log10ws	-9.06		Crippen Method
logp	7.393		Crippen Method
mcvol	376.760	ml/mol	McGowan Method
pc	1004.62	kPa	Joback Method
rinpol	3370.00		NIST Webbook
rinpol	3370.00		NIST Webbook
tb	1097.89	K	Joback Method
tc	1344.74	K	Joback Method
tf	680.92	K	Joback Method
vc	1.446	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1243.22	J/molxK	1097.89	Joback Method
cpg	1281.66	J/molxK	1303.60	Joback Method
cpg	1277.64	J/molxK	1262.46	Joback Method
cpg	1271.84	J/molxK	1221.32	Joback Method
cpg	1264.20	J/molxK	1180.17	Joback Method
cpg	1254.67	J/molxK	1139.03	Joback Method
cpg	1283.93	J/molxK	1344.74	Joback Method
dvisc	0.0000132	Paxs	1097.89	Joback Method

dvisc	0.0000167	Paxs	1028.39	Joback Method
dvisc	0.0000218	Paxs	958.90	Joback Method
dvisc	0.0000297	Paxs	889.41	Joback Method
dvisc	0.0000427	Paxs	819.91	Joback Method
dvisc	0.0000655	Paxs	750.42	Joback Method
dvisc	0.0001098	Paxs	680.92	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=U382845&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382845&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>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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