

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

Inchi:	InChI=1S/C28H37ClO5/c1-3-4-5-6-7-8-9-10-11-14-19-33-27(30)24-15-12-13-16-25(24)28
InchiKey:	WXROEQMAFPMRPJ-UHFFFAOYSA-N
Formula:	C28H37ClO5
SMILES:	CCCCCCCCCCCCOC(=O)c1ccccc1C(=O)OCc1ccc(Cl)cc1OC
Mol. weight [g/mol]:	489.04

## Physical Properties

Property code	Value	Unit	Source
gf	-203.96	kJ/mol	Joback Method
hf	-820.16	kJ/mol	Joback Method
hfus	66.15	kJ/mol	Joback Method
hvap	109.57	kJ/mol	Joback Method
log10ws	-9.48		Crippen Method
logp	7.783		Crippen Method
mvol	390.850	ml/mol	McGowan Method
pc	946.16	kPa	Joback Method
rinpol	3473.00		NIST Webbook
rinpol	3473.00		NIST Webbook
tb	1120.77	K	Joback Method
tc	1374.61	K	Joback Method
tf	692.19	K	Joback Method
vc	1.502	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1303.81	J/molxK	1120.77	Joback Method
cpg	1340.66	J/molxK	1332.30	Joback Method
cpg	1337.18	J/molxK	1289.99	Joback Method
cpg	1331.82	J/molxK	1247.69	Joback Method
cpg	1324.50	J/molxK	1205.38	Joback Method
cpg	1315.19	J/molxK	1163.08	Joback Method
cpg	1342.31	J/molxK	1374.61	Joback Method
dvisc	0.0000113	Paxs	1120.77	Joback Method

dvisc	0.0000143	Paxs	1049.34	Joback Method
dvisc	0.0000188	Paxs	977.91	Joback Method
dvisc	0.0000257	Paxs	906.48	Joback Method
dvisc	0.0000371	Paxs	835.05	Joback Method
dvisc	0.0000573	Paxs	763.62	Joback Method
dvisc	0.0000969	Paxs	692.19	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=U382846&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382846&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>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</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>log<sub>p</sub>:</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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