

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

Inchi:	InChI=1S/C26H33ClO5/c1-3-4-5-6-7-8-9-12-17-31-25(28)22-13-10-11-14-23(22)26(29)30
InchiKey:	LSYYJKBKFHCQEV-UHFFFAOYSA-N
Formula:	C26H33ClO5
SMILES:	CCCCCCCCCOC(=O)c1ccccc1C(=O)OCc1ccc(Cl)cc1OC
Mol. weight [g/mol]:	460.99

## Physical Properties

Property code	Value	Unit	Source
gf	-220.80	kJ/mol	Joback Method
hf	-778.88	kJ/mol	Joback Method
hfus	60.97	kJ/mol	Joback Method
hvap	105.11	kJ/mol	Joback Method
log10ws	-8.64		Crippen Method
logp	7.003		Crippen Method
mvol	362.670	ml/mol	McGowan Method
pc	1068.66	kPa	Joback Method
rinpol	3270.00		NIST Webbook
rinpol	3270.00		NIST Webbook
tb	1075.01	K	Joback Method
tc	1316.11	K	Joback Method
tf	669.65	K	Joback Method
vc	1.391	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1182.86	J/molxK	1075.01	Joback Method
cpg	1222.69	J/molxK	1275.93	Joback Method
cpg	1218.21	J/molxK	1235.75	Joback Method
cpg	1212.03	J/molxK	1195.56	Joback Method
cpg	1204.10	J/molxK	1155.38	Joback Method
cpg	1194.39	J/molxK	1115.19	Joback Method
cpg	1225.51	J/molxK	1316.11	Joback Method
dvisc	0.0000154	Paxs	1075.01	Joback Method

dvisc	0.0000194	Paxs	1007.45	Joback Method
dvisc	0.0000253	Paxs	939.89	Joback Method
dvisc	0.0000343	Paxs	872.33	Joback Method
dvisc	0.0000490	Paxs	804.77	Joback Method
dvisc	0.0000747	Paxs	737.21	Joback Method
dvisc	0.0001240	Paxs	669.65	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=U382844&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382844&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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