

# Phthalic acid, 2,5-dichlorobenzyl undecyl ester

**Inchi:** InChI=1S/C26H32Cl2O4/c1-2-3-4-5-6-7-8-9-12-17-31-25(29)22-13-10-11-14-23(22)26(30)27-28  
**InchiKey:** MZHQUPHSFHTVPI-UHFFFAOYSA-N  
**Formula:** C26H32Cl2O4  
**SMILES:** CCCCCCCCCCOC(=O)c1ccccc1C(=O)OCc1cc(Cl)ccc1Cl  
**Mol. weight [g/mol]:** 479.44

## Physical Properties

Property code	Value	Unit	Source
gf	-127.73	kJ/mol	Joback Method
hf	-662.40	kJ/mol	Joback Method
hfus	63.98	kJ/mol	Joback Method
hvap	107.09	kJ/mol	Joback Method
log10ws	-9.62		Crippen Method
logp	8.038		Crippen Method
mvol	369.040	ml/mol	McGowan Method
pc	1054.83	kPa	Joback Method
rinpol	3322.00		NIST Webbook
rinpol	3322.00		NIST Webbook
tb	1090.02	K	Joback Method
tc	1334.49	K	Joback Method
tf	677.34	K	Joback Method
vc	1.421	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1177.56	J/molxK	1090.02	Joback Method
cpg	1220.29	J/molxK	1293.75	Joback Method
cpg	1214.63	J/molxK	1253.00	Joback Method
cpg	1207.59	J/molxK	1212.26	Joback Method
cpg	1199.11	J/molxK	1171.51	Joback Method
cpg	1189.12	J/molxK	1130.77	Joback Method
cpg	1224.65	J/molxK	1334.49	Joback Method
dvisc	0.0000176	Paxs	1090.02	Joback Method

dvisc	0.0000221	Paxs	1021.24	Joback Method
dvisc	0.0000289	Paxs	952.46	Joback Method
dvisc	0.0000392	Paxs	883.68	Joback Method
dvisc	0.0000561	Paxs	814.90	Joback Method
dvisc	0.0000857	Paxs	746.12	Joback Method
dvisc	0.0001428	Paxs	677.34	Joback Method

## Sources

<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=U382920&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382920&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>

## 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

Latest version available from:

<https://www.chemeo.com/cid/91-488-0/Phthalic-acid-2-5-dichlorobenzyl-undecyl-ester.pdf>

Generated by Cheméo on 2024-04-25 13:45:35.328554326 +0000 UTC m=+16341984.249131639.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.