

# Phthalic acid, di(2,5-dichlorobenzyl) ester

**Inchi:** InChI=1S/C22H14Cl4O4/c23-15-5-7-19(25)13(9-15)11-29-21(27)17-3-1-2-4-18(17)22(28)  
**InchiKey:** JCOAVSLOKZJWEC-UHFFFAOYSA-N  
**Formula:** C22H14Cl4O4  
**SMILES:** O=C(OCc1cc(Cl)ccc1Cl)c1ccccc1C(=O)OCc1cc(Cl)ccc1Cl  
**Mol. weight [g/mol]:** 484.16

## Physical Properties

Property code	Value	Unit	Source
gf	-92.12	kJ/mol	Joback Method
hf	-397.73	kJ/mol	Joback Method
hfus	55.28	kJ/mol	Joback Method
hvap	110.56	kJ/mol	Joback Method
log10ws	-8.92		Crippen Method
logp	7.014		Crippen Method
mvol	313.400	ml/mol	McGowan Method
pc	1641.76	kPa	Joback Method
rinpol	3223.00		NIST Webbook
rinpol	3223.00		NIST Webbook
tb	1110.00	K	Joback Method
tc	1374.69	K	Joback Method
tf	743.56	K	Joback Method
vc	1.188	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	852.02	J/molxK	1110.00	Joback Method
cpg	865.71	J/molxK	1330.57	Joback Method
cpg	865.62	J/molxK	1286.46	Joback Method
cpg	864.26	J/molxK	1242.34	Joback Method
cpg	861.58	J/molxK	1198.23	Joback Method
cpg	857.52	J/molxK	1154.11	Joback Method
cpg	864.59	J/molxK	1374.69	Joback Method
dvisc	0.0000253	Paxs	1110.00	Joback Method

dvisc	0.0000307	Paxs	1048.93	Joback Method
dvisc	0.0000380	Paxs	987.85	Joback Method
dvisc	0.0000485	Paxs	926.78	Joback Method
dvisc	0.0000640	Paxs	865.71	Joback Method
dvisc	0.0000882	Paxs	804.63	Joback Method
dvisc	0.0001280	Paxs	743.56	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=U382924&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382924&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>cp<sub>g</sub>:</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>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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