

# Phthalic acid, decyl 2,4-dichlorobenzyl ester

<b>Inchi:</b>	InChI=1S/C25H30Cl2O4/c1-2-3-4-5-6-7-8-11-16-30-24(28)21-12-9-10-13-22(21)25(29)3
<b>InchiKey:</b>	UZNRCIPCUQALLQ-UHFFFAOYSA-N
<b>Formula:</b>	C25H30Cl2O4
<b>SMILES:</b>	CCCCCCCCCOC(=O)c1ccccc1C(=O)OCc1ccc(Cl)cc1Cl
<b>Mol. weight [g/mol]:</b>	465.41

## Physical Properties

Property code	Value	Unit	Source
gf	-136.15	kJ/mol	Joback Method
hf	-641.76	kJ/mol	Joback Method
hfus	61.39	kJ/mol	Joback Method
hvap	104.86	kJ/mol	Joback Method
log10ws	-9.20		Crippen Method
logp	7.648		Crippen Method
mvol	354.950	ml/mol	McGowan Method
pc	1123.81	kPa	Joback Method
rinpol	3194.00		NIST Webbook
rinpol	3194.00		NIST Webbook
tb	1067.14	K	Joback Method
tc	1307.11	K	Joback Method
tf	666.07	K	Joback Method
vc	1.365	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1117.37	J/molxK	1067.14	Joback Method
cpg	1160.41	J/molxK	1267.12	Joback Method
cpg	1154.58	J/molxK	1227.12	Joback Method
cpg	1147.42	J/molxK	1187.13	Joback Method
cpg	1138.87	J/molxK	1147.13	Joback Method
cpg	1128.87	J/molxK	1107.14	Joback Method
cpg	1164.96	J/molxK	1307.11	Joback Method
dvisc	0.0000205	Paxs	1067.14	Joback Method

dvisc	0.0000258	Paxs	1000.30	Joback Method
dvisc	0.0000335	Paxs	933.45	Joback Method
dvisc	0.0000453	Paxs	866.61	Joback Method
dvisc	0.0000644	Paxs	799.76	Joback Method
dvisc	0.0000978	Paxs	732.92	Joback Method
dvisc	0.0001613	Paxs	666.07	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=U382566&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382566&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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