

# Phthalic acid, pentyl 3-phenoxybenzyl ester

<b>Inchi:</b>	InChI=1S/C26H26O5/c1-2-3-9-17-29-25(27)23-15-7-8-16-24(23)26(28)30-19-20-11-10-1
<b>InchiKey:</b>	GZOYPVGNVZKRAK-UHFFFAOYSA-N
<b>Formula:</b>	C26H26O5
<b>SMILES:</b>	CCCCCOC(=O)c1ccccc1C(=O)OCc1cccc(Oc2ccccc2)c1
<b>Mol. weight [g/mol]:</b>	418.48

## Physical Properties

Property code	Value	Unit	Source
gf	-86.83	kJ/mol	Joback Method
hf	-515.14	kJ/mol	Joback Method
hfus	51.20	kJ/mol	Joback Method
hvap	102.34	kJ/mol	Joback Method
log10ws	-7.38		Crippen Method
logp	6.183		Crippen Method
mcvol	326.670	ml/mol	McGowan Method
pc	1396.46	kPa	Joback Method
rinsol	3213.00		NIST Webbook
tb	1059.28	K	Joback Method
tc	1304.55	K	Joback Method
tf	653.63	K	Joback Method
vc	1.234	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1050.84	J/molxK	1059.28	Joback Method
cpg	1061.26	J/molxK	1100.16	Joback Method
cpg	1069.99	J/molxK	1141.04	Joback Method
cpg	1077.06	J/molxK	1181.91	Joback Method
cpg	1082.55	J/molxK	1222.79	Joback Method
cpg	1086.52	J/molxK	1263.67	Joback Method
cpg	1089.01	J/molxK	1304.55	Joback Method
dvisc	0.0001549	Paxs	653.63	Joback Method
dvisc	0.0000922	Paxs	721.24	Joback Method

dvisc	0.0000600	Paxs	788.85	Joback Method
dvisc	0.0000418	Paxs	856.46	Joback Method
dvisc	0.0000307	Paxs	924.06	Joback Method
dvisc	0.0000235	Paxs	991.67	Joback Method
dvisc	0.0000186	Paxs	1059.28	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U357036&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357036&amp;Units=SI</a>
<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>

## 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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