

# Isophthalic acid, hexyl 3-phenoxybenzyl ester

<b>Inchi:</b>	InChI=1S/C27H28O5/c1-2-3-4-8-17-30-26(28)22-12-10-13-23(19-22)27(29)31-20-21-11-
<b>InchiKey:</b>	PLBCMBRXGNRNJD-UHFFFAOYSA-N
<b>Formula:</b>	C27H28O5
<b>SMILES:</b>	CCCCCOC(=O)c1cccc(C(=O)OCc2cccc(Oc3ccccc3)c2)c1
<b>Mol. weight [g/mol]:</b>	432.51

## Physical Properties

Property code	Value	Unit	Source
gf	-78.41	kJ/mol	Joback Method
hf	-535.78	kJ/mol	Joback Method
hfus	53.79	kJ/mol	Joback Method
hvap	104.57	kJ/mol	Joback Method
log10ws	-7.79		Crippen Method
logp	6.573		Crippen Method
mvol	340.760	ml/mol	McGowan Method
pc	1301.41	kPa	Joback Method
rinpol	3460.00		NIST Webbook
tb	1082.16	K	Joback Method
tc	1329.02	K	Joback Method
tf	664.90	K	Joback Method
vc	1.290	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1110.16	J/molxK	1082.16	Joback Method
cpg	1120.44	J/molxK	1123.30	Joback Method
cpg	1128.98	J/molxK	1164.45	Joback Method
cpg	1135.84	J/molxK	1205.59	Joback Method
cpg	1141.09	J/molxK	1246.73	Joback Method
cpg	1144.79	J/molxK	1287.87	Joback Method
cpg	1147.02	J/molxK	1329.02	Joback Method
dvisc	0.0001376	Paxs	664.90	Joback Method
dvisc	0.0000812	Paxs	734.44	Joback Method

dvisc	0.0000524	Paxs	803.99	Joback Method
dvisc	0.0000363	Paxs	873.53	Joback Method
dvisc	0.0000266	Paxs	943.07	Joback Method
dvisc	0.0000203	Paxs	1012.62	Joback Method
dvisc	0.0000160	Paxs	1082.16	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U356609&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U356609&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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