

# Phthalic acid, nonyl 3-phenoxybenzyl ester

<b>Inchi:</b>	InChI=1S/C30H34O5/c1-2-3-4-5-6-7-13-21-33-29(31)27-19-11-12-20-28(27)30(32)34-23
<b>InchiKey:</b>	LQDCDEUAOYYWBQ-UHFFFAOYSA-N
<b>Formula:</b>	C30H34O5
<b>SMILES:</b>	CCCCCCCCCOC(=O)c1ccccc1C(=O)OCc1cccc(Oc2ccccc2)c1
<b>Mol. weight [g/mol]:</b>	474.59

## Physical Properties

Property code	Value	Unit	Source
gf	-53.15	kJ/mol	Joback Method
hf	-597.70	kJ/mol	Joback Method
hfus	61.56	kJ/mol	Joback Method
hvap	111.25	kJ/mol	Joback Method
log10ws	-9.05		Crippen Method
logp	7.743		Crippen Method
mvol	383.030	ml/mol	McGowan Method
pc	1067.97	kPa	Joback Method
rinpol	3613.00		NIST Webbook
rinpol	3613.00		NIST Webbook
tb	1150.80	K	Joback Method
tc	1408.97	K	Joback Method
tf	698.71	K	Joback Method
vc	1.458	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1289.86	J/molxK	1150.80	Joback Method
cpg	1299.70	J/molxK	1193.83	Joback Method
cpg	1307.63	J/molxK	1236.86	Joback Method
cpg	1313.74	J/molxK	1279.88	Joback Method
cpg	1318.12	J/molxK	1322.91	Joback Method
cpg	1320.85	J/molxK	1365.94	Joback Method
cpg	1322.04	J/molxK	1408.97	Joback Method
dvisc	0.0000951	Paxs	698.71	Joback Method

dvisc	0.0000545	Paxs	774.06	Joback Method
dvisc	0.0000345	Paxs	849.41	Joback Method
dvisc	0.0000235	Paxs	924.75	Joback Method
dvisc	0.0000170	Paxs	1000.10	Joback Method
dvisc	0.0000129	Paxs	1075.45	Joback Method
dvisc	0.0000101	Paxs	1150.80	Joback Method

## Sources

<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=U357040&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357040&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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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