

# Phthalic acid, isohexyl 2-propylphenyl ester

<b>Inchi:</b>	InChI=1S/C23H28O4/c1-4-10-18-12-5-8-15-21(18)27-23(25)20-14-7-6-13-19(20)22(24)2
<b>InchiKey:</b>	HOKJUPZVPUZDAL-UHFFFAOYSA-N
<b>Formula:</b>	C23H28O4
<b>SMILES:</b>	CCCc1ccccc1OC(=O)c1ccccc1C(=O)OCCCC(C)C
<b>Mol. weight [g/mol]:</b>	368.47

## Physical Properties

Property code	Value	Unit	Source
gf	-121.94	kJ/mol	Joback Method
hf	-562.81	kJ/mol	Joback Method
hfus	44.68	kJ/mol	Joback Method
hvap	90.59	kJ/mol	Joback Method
log10ws	-6.87		Crippen Method
logp	5.451		Crippen Method
mcvol	302.290	ml/mol	McGowan Method
pc	1377.86	kPa	Joback Method
rinpol	2576.00		NIST Webbook
tb	941.10	K	Joback Method
tc	1165.57	K	Joback Method
tf	556.17	K	Joback Method
vc	1.149	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	956.42	J/molxK	941.10	Joback Method
cpg	970.76	J/molxK	978.51	Joback Method
cpg	983.70	J/molxK	1015.92	Joback Method
cpg	995.28	J/molxK	1053.33	Joback Method
cpg	1005.54	J/molxK	1090.75	Joback Method
cpg	1014.52	J/molxK	1128.16	Joback Method
cpg	1022.27	J/molxK	1165.57	Joback Method
dvisc	0.0003644	Paxs	556.17	Joback Method
dvisc	0.0002004	Paxs	620.33	Joback Method

dvisc	0.0001233	Paxs	684.48	Joback Method
dvisc	0.0000824	Paxs	748.63	Joback Method
dvisc	0.0000587	Paxs	812.79	Joback Method
dvisc	0.0000440	Paxs	876.94	Joback Method
dvisc	0.0000343	Paxs	941.10	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=U357021&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357021&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

Latest version available from:

<https://www.chemeo.com/cid/30-170-9/Phthalic-acid-isohehexyl-2-propylphenyl-ester.pdf>

Generated by Cheméo on 2024-04-20 14:29:52.460196808 +0000 UTC m=+15912641.380774121.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.