

# Isophthalic acid, octyl 2-propylphenyl ester

<b>Inchi:</b>	InChI=1S/C25H32O4/c1-3-5-6-7-8-11-18-28-24(26)21-15-12-16-22(19-21)25(27)29-23-1
<b>InchiKey:</b>	UVVARRGRXWHWJH-UHFFFAOYSA-N
<b>Formula:</b>	C25H32O4
<b>SMILES:</b>	CCCCCCCCOC(=O)c1cccc(C(=O)Oc2ccccc2CCC)c1
<b>Mol. weight [g/mol]:</b>	396.52

## Physical Properties

Property code	Value	Unit	Source
gf	-102.66	kJ/mol	Joback Method
hf	-598.81	kJ/mol	Joback Method
hfus	53.38	kJ/mol	Joback Method
hvap	95.43	kJ/mol	Joback Method
log10ws	-7.95		Crippen Method
logp	6.376		Crippen Method
mcvol	330.470	ml/mol	McGowan Method
pc	1194.00	kPa	Joback Method
rinpol	2971.00		NIST Webbook
tb	987.30	K	Joback Method
tc	1212.72	K	Joback Method
tf	593.71	K	Joback Method
vc	1.268	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1075.99	J/molxK	987.30	Joback Method
cpg	1133.85	J/molxK	1175.15	Joback Method
cpg	1124.97	J/molxK	1137.58	Joback Method
cpg	1114.80	J/molxK	1100.01	Joback Method
cpg	1103.28	J/molxK	1062.44	Joback Method
cpg	1090.36	J/molxK	1024.87	Joback Method
cpg	1141.48	J/molxK	1212.72	Joback Method
dvisc	0.0000281	Paxs	987.30	Joback Method
dvisc	0.0000358	Paxs	921.70	Joback Method

dvisc	0.0000474	Paxs	856.10	Joback Method
dvisc	0.0000657	Paxs	790.50	Joback Method
dvisc	0.0000965	Paxs	724.91	Joback Method
dvisc	0.0001532	Paxs	659.31	Joback Method
dvisc	0.0002692	Paxs	593.71	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=U356631&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U356631&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/46-816-5/Isophthalic-acid-octyl-2-propylphenyl-ester.pdf>

Generated by Cheméo on 2024-04-24 14:01:02.593819377 +0000 UTC m=+16256511.514396705.

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