

# Phthalic acid, decyl 3-iodobenzyl ester

<b>Inchi:</b>	InChI=1S/C25H31IO4/c1-2-3-4-5-6-7-8-11-17-29-24(27)22-15-9-10-16-23(22)25(28)30-1
<b>InchiKey:</b>	LNJPTELGHRUXQH-UHFFFAOYSA-N
<b>Formula:</b>	C25H31IO4
<b>SMILES:</b>	CCCCCCCCCOC(=O)c1ccccc1C(=O)OCc1ccc(I)c1
<b>Mol. weight [g/mol]:</b>	522.42

## Physical Properties

Property code	Value	Unit	Source
gf	-44.54	kJ/mol	Joback Method
hf	-521.94	kJ/mol	Joback Method
hfus	57.79	kJ/mol	Joback Method
hvap	104.81	kJ/mol	Joback Method
log10ws	-8.98		Crippen Method
logp	6.946		Crippen Method
mvol	356.290	ml/mol	McGowan Method
pc	1176.05	kPa	Joback Method
rinpol	3408.00		NIST Webbook
rinpol	3408.00		NIST Webbook
tb	1080.44	K	Joback Method
tc	1325.38	K	Joback Method
tf	651.77	K	Joback Method
vc	1.355	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1118.08	J/molxK	1080.44	Joback Method
cpg	1130.02	J/molxK	1121.26	Joback Method
cpg	1140.59	J/molxK	1162.09	Joback Method
cpg	1149.85	J/molxK	1202.91	Joback Method
cpg	1157.89	J/molxK	1243.74	Joback Method
cpg	1164.80	J/molxK	1284.56	Joback Method
cpg	1170.65	J/molxK	1325.38	Joback Method
dvisc	0.0001827	Paxs	651.77	Joback Method

dvisc	0.0001039	Paxs	723.22	Joback Method
dvisc	0.0000654	Paxs	794.66	Joback Method
dvisc	0.0000445	Paxs	866.11	Joback Method
dvisc	0.0000321	Paxs	937.55	Joback Method
dvisc	0.0000242	Paxs	1009.00	Joback Method
dvisc	0.0000190	Paxs	1080.44	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=U378074&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U378074&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>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</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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