

# Isophthalic acid, heptyl 2-isopropoxyphenyl ester

Inchi:	InChI=1S/C24H30O5/c1-4-5-6-7-10-16-27-23(25)19-12-11-13-20(17-19)24(26)29-22-15-
InchiKey:	ABJNFWZFDZRXBH-UHFFFAOYSA-N
Formula:	C24H30O5
SMILES:	CCCCCCCOC(=O)c1cccc(C(=O)Oc2ccccc2OC(C)C)c1
Mol. weight [g/mol]:	398.49

## Physical Properties

Property code	Value	Unit	Source
gf	-218.52	kJ/mol	Joback Method
hf	-715.67	kJ/mol	Joback Method
hfus	48.46	kJ/mol	Joback Method
hvap	95.23	kJ/mol	Joback Method
log10ws	-7.38		Crippen Method
logp	5.820		Crippen Method
mvol	322.250	ml/mol	McGowan Method
pc	1269.16	kPa	Joback Method
rinpol	3008.00		NIST Webbook
rinpol	3008.00		NIST Webbook
tb	986.40	K	Joback Method
tc	1213.19	K	Joback Method
tf	589.67	K	Joback Method
vc	1.224	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1043.46	J/molxK	986.40	Joback Method
cpg	1056.82	J/molxK	1024.20	Joback Method
cpg	1068.59	J/molxK	1062.00	Joback Method
cpg	1078.79	J/molxK	1099.80	Joback Method
cpg	1087.45	J/molxK	1137.60	Joback Method
cpg	1094.61	J/molxK	1175.39	Joback Method
cpg	1100.29	J/molxK	1213.19	Joback Method
dvisc	0.0002281	Paxs	589.67	Joback Method

dvisc	0.0001269	Paxs	655.79	Joback Method
dvisc	0.0000786	Paxs	721.91	Joback Method
dvisc	0.0000527	Paxs	788.04	Joback Method
dvisc	0.0000376	Paxs	854.16	Joback Method
dvisc	0.0000282	Paxs	920.28	Joback Method
dvisc	0.0000220	Paxs	986.40	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U344432&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U344432&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>cp<sub>g</sub>:</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>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>m<sub>cvol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rin<sub>pol</sub>:</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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