

# Isophthalic acid, 2-isopropoxyphenyl octyl ester

Inchi:	InChI=1S/C25H32O5/c1-4-5-6-7-8-11-17-28-24(26)20-13-12-14-21(18-20)25(27)30-23-1
InchiKey:	UDBOJJAWJINVCQ-UHFFFAOYSA-N
Formula:	C25H32O5
SMILES:	CCCCCCCCOC(=O)c1cccc(C(=O)Oc2ccccc2OC(C)C)c1
Mol. weight [g/mol]:	412.52

## Physical Properties

Property code	Value	Unit	Source
gf	-210.10	kJ/mol	Joback Method
hf	-736.31	kJ/mol	Joback Method
hfus	51.05	kJ/mol	Joback Method
hvap	97.45	kJ/mol	Joback Method
log10ws	-7.80		Crippen Method
logp	6.210		Crippen Method
mvol	336.340	ml/mol	McGowan Method
pc	1186.60	kPa	Joback Method
rinpol	3112.00		NIST Webbook
rinpol	3112.00		NIST Webbook
tb	1009.28	K	Joback Method
tc	1238.35	K	Joback Method
tf	600.94	K	Joback Method
vc	1.280	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1103.54	J/molxK	1009.28	Joback Method
cpg	1116.84	J/molxK	1047.46	Joback Method
cpg	1128.48	J/molxK	1085.64	Joback Method
cpg	1138.50	J/molxK	1123.82	Joback Method
cpg	1146.94	J/molxK	1162.00	Joback Method
cpg	1153.82	J/molxK	1200.18	Joback Method
cpg	1159.18	J/molxK	1238.35	Joback Method
dvisc	0.0002030	Paxs	600.94	Joback Method

dvisc	0.0001117	Paxs	669.00	Joback Method
dvisc	0.0000687	Paxs	737.05	Joback Method
dvisc	0.0000459	Paxs	805.11	Joback Method
dvisc	0.0000326	Paxs	873.17	Joback Method
dvisc	0.0000243	Paxs	941.22	Joback Method
dvisc	0.0000189	Paxs	1009.28	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=U344433&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U344433&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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