

# Isophthalic acid, 2,6-dimethoxyphenyl octyl ester

Inchi:	InChI=1S/C24H30O6/c1-4-5-6-7-8-9-16-29-23(25)18-12-10-13-19(17-18)24(26)30-22-20
InchiKey:	XSFLZJSXZYHCGP-UHFFFAOYSA-N
Formula:	C24H30O6
SMILES:	CCCCCCCCOC(=O)c1cccc(C(=O)Oc2c(OC)cccc2OC)c1
Mol. weight [g/mol]:	414.49

## Physical Properties

Property code	Value	Unit	Source
gf	-330.71	kJ/mol	Joback Method
hf	-854.08	kJ/mol	Joback Method
hfus	52.78	kJ/mol	Joback Method
hvap	98.69	kJ/mol	Joback Method
log10ws	-6.97		Crippen Method
logp	5.440		Crippen Method
mcvol	328.120	ml/mol	McGowan Method
pc	1233.74	kPa	Joback Method
rinsol	3270.00		NIST Webbook
tb	1014.24	K	Joback Method
tc	1243.67	K	Joback Method
tf	639.42	K	Joback Method
vc	1.248	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1068.32	J/molxK	1014.24	Joback Method
cpg	1080.33	J/molxK	1052.48	Joback Method
cpg	1090.54	J/molxK	1090.72	Joback Method
cpg	1098.94	J/molxK	1128.95	Joback Method
cpg	1105.53	J/molxK	1167.19	Joback Method
cpg	1110.33	J/molxK	1205.43	Joback Method
cpg	1113.34	J/molxK	1243.67	Joback Method
dvisc	0.0001357	Paxs	639.42	Joback Method
dvisc	0.0000838	Paxs	701.89	Joback Method

dvisc	0.0000560	Paxs	764.36	Joback Method
dvisc	0.0000397	Paxs	826.83	Joback Method
dvisc	0.0000296	Paxs	889.30	Joback Method
dvisc	0.0000229	Paxs	951.77	Joback Method
dvisc	0.0000183	Paxs	1014.24	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U344538&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U344538&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>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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