

# Isophthalic acid, di(3-methylphenyl) ester

<b>Inchi:</b>	InChI=1S/C22H18O4/c1-15-6-3-10-19(12-15)25-21(23)17-8-5-9-18(14-17)22(24)26-20-1
<b>InchiKey:</b>	PTZZYDVLRWPNJ-UHFFFAOYSA-N
<b>Formula:</b>	C22H18O4
<b>SMILES:</b>	<chem>Cc1cccc(OC(=O)c2cccc(C(=O)Oc3cccc(C)c3)c2)c1</chem>
<b>Mol. weight [g/mol]:</b>	346.38

## Physical Properties

Property code	Value	Unit	Source
gf	-25.14	kJ/mol	Joback Method
hf	-311.83	kJ/mol	Joback Method
hfus	39.27	kJ/mol	Joback Method
hvap	91.69	kJ/mol	Joback Method
log10ws	-6.60		Crippen Method
logp	4.742		Crippen Method
mvol	264.440	ml/mol	McGowan Method
pc	1906.90	kPa	Joback Method
rinpol	3079.00		NIST Webbook
rinpol	3079.00		NIST Webbook
tb	950.32	K	Joback Method
tc	1201.35	K	Joback Method
tf	598.84	K	Joback Method
vc	0.992	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	790.76	J/molxK	950.32	Joback Method
cpg	802.62	J/molxK	992.16	Joback Method
cpg	812.95	J/molxK	1034.00	Joback Method
cpg	821.82	J/molxK	1075.83	Joback Method
cpg	829.28	J/molxK	1117.67	Joback Method
cpg	835.38	J/molxK	1159.51	Joback Method
cpg	840.17	J/molxK	1201.35	Joback Method
dvisc	0.0003041	Paxs	598.84	Joback Method

dvisc	0.0001927	Paxs	657.42	Joback Method
dvisc	0.0001316	Paxs	716.00	Joback Method
dvisc	0.0000952	Paxs	774.58	Joback Method
dvisc	0.0000721	Paxs	833.16	Joback Method
dvisc	0.0000566	Paxs	891.74	Joback Method
dvisc	0.0000458	Paxs	950.32	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=U344523&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U344523&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

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