

# Isophthalic acid, di(1-isopropyl-2-methylpropyl) ester

Inchi:	InChI=1S/C22H34O4/c1-13(2)19(14(3)4)25-21(23)17-10-9-11-18(12-17)22(24)26-20(15)
InchiKey:	OVNLBUVYWFGXSX-UHFFFAOYSA-N
Formula:	C22H34O4
SMILES:	CC(C)C(OC(=O)c1cccc(C(=O)OC(C(C)C)C(C)C)c1)C(C)C
Mol. weight [g/mol]:	362.50

## Physical Properties

Property code	Value	Unit	Source
gf	-245.34	kJ/mol	Joback Method
hf	-793.63	kJ/mol	Joback Method
hfus	30.82	kJ/mol	Joback Method
hvap	83.49	kJ/mol	Joback Method
log10ws	-6.24		Crippen Method
logp	5.361		Crippen Method
mcvol	311.960	ml/mol	McGowan Method
pc	1210.67	kPa	Joback Method
rinpol	2248.00		NIST Webbook
rinpol	2248.00		NIST Webbook
tb	884.36	K	Joback Method
tc	1096.21	K	Joback Method
tf	430.96	K	Joback Method
vc	1.171	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1000.18	J/molxK	884.36	Joback Method
cpg	1017.29	J/molxK	919.67	Joback Method
cpg	1033.00	J/molxK	954.98	Joback Method
cpg	1047.32	J/molxK	990.28	Joback Method
cpg	1060.31	J/molxK	1025.59	Joback Method
cpg	1071.98	J/molxK	1060.90	Joback Method
cpg	1082.37	J/molxK	1096.21	Joback Method
dvisc	0.0012639	Paxs	430.96	Joback Method

dvisc	0.0003994	Paxs	506.53	Joback Method
dvisc	0.0001702	Paxs	582.09	Joback Method
dvisc	0.0000883	Paxs	657.66	Joback Method
dvisc	0.0000524	Paxs	733.23	Joback Method
dvisc	0.0000343	Paxs	808.79	Joback Method
dvisc	0.0000241	Paxs	884.36	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=U356372&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U356372&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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