

# Isophthalic acid, isobutyl 2-methylcyclohexyl ester

Inchi:	InChI=1S/C19H26O4/c1-13(2)12-22-18(20)15-8-6-9-16(11-15)19(21)23-17-10-5-4-7-14(
InchiKey:	BIDYCDNIIRTKOD-UHFFFAOYSA-N
Formula:	C19H26O4
SMILES:	CC(C)COC(=O)c1cccc(C(=O)OC2CCCCC2C)c1
Mol. weight [g/mol]:	318.41

## Physical Properties

Property code	Value	Unit	Source
gf	-241.66	kJ/mol	Joback Method
hf	-671.33	kJ/mol	Joback Method
hfus	33.57	kJ/mol	Joback Method
hvap	78.87	kJ/mol	Joback Method
log10ws	-5.25		Crippen Method
logp	4.235		Crippen Method
mcvol	258.830	ml/mol	McGowan Method
pc	1660.55	kPa	Joback Method
rinpol	2396.00		NIST Webbook
tb	832.80	K	Joback Method
tc	1056.75	K	Joback Method
tf	475.29	K	Joback Method
vc	0.966	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	818.30	J/molxK	832.80	Joback Method
cpg	835.96	J/molxK	870.13	Joback Method
cpg	852.05	J/molxK	907.45	Joback Method
cpg	866.59	J/molxK	944.78	Joback Method
cpg	879.60	J/molxK	982.10	Joback Method
cpg	891.10	J/molxK	1019.43	Joback Method
cpg	901.12	J/molxK	1056.75	Joback Method
dvisc	0.0009080	Paxs	475.29	Joback Method
dvisc	0.0004785	Paxs	534.88	Joback Method

dvisc	0.0002868	Paxs	594.46	Joback Method
dvisc	0.0001886	Paxs	654.04	Joback Method
dvisc	0.0001331	Paxs	713.63	Joback Method
dvisc	0.0000991	Paxs	773.21	Joback Method
dvisc	0.0000769	Paxs	832.80	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=U345747&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U345747&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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