

# Isophthalic acid, ethyl 2-methoxyethyl ester

**Inchi:** InChI=1S/C13H16O5/c1-3-17-12(14)10-5-4-6-11(9-10)13(15)18-8-7-16-2/h4-6,9H,3,7-8H  
**InchiKey:** LSZNLFSHZJKMQP-UHFFFAOYSA-N  
**Formula:** C13H16O5  
**SMILES:** CCOC(=O)c1cccc(C(=O)OCCOC)c1  
**Mol. weight [g/mol]:** 252.26

## Physical Properties

Property code	Value	Unit	Source
gf	-411.48	kJ/mol	Joback Method
hf	-708.41	kJ/mol	Joback Method
hfus	29.84	kJ/mol	Joback Method
hvap	68.19	kJ/mol	Joback Method
log10ws	-2.30		Crippen Method
logp	1.666		Crippen Method
mcvol	191.020	ml/mol	McGowan Method
pc	2322.54	kPa	Joback Method
rinpol	1919.00		NIST Webbook
rinpol	1919.00		NIST Webbook
tb	703.50	K	Joback Method
tc	910.34	K	Joback Method
tf	441.76	K	Joback Method
vc	0.722	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	513.53	J/molxK	703.50	Joback Method
cpg	573.00	J/molxK	875.86	Joback Method
cpg	562.86	J/molxK	841.39	Joback Method
cpg	551.84	J/molxK	806.92	Joback Method
cpg	539.94	J/molxK	772.45	Joback Method
cpg	527.16	J/molxK	737.97	Joback Method
cpg	582.24	J/molxK	910.34	Joback Method
dvisc	0.0001039	Paxs	703.50	Joback Method

dvisc	0.0001299	Paxs	659.88	Joback Method
dvisc	0.0001676	Paxs	616.25	Joback Method
dvisc	0.0002248	Paxs	572.63	Joback Method
dvisc	0.0003164	Paxs	529.01	Joback Method
dvisc	0.0004738	Paxs	485.38	Joback Method
dvisc	0.0007681	Paxs	441.76	Joback Method

## Sources

<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=U345857&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U345857&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>

## Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</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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