

# Isophthalic acid, di(2-ethylphenyl) ester

<b>Inchi:</b>	InChI=1S/C24H22O4/c1-3-17-10-5-7-14-21(17)27-23(25)19-12-9-13-20(16-19)24(26)28-
<b>InchiKey:</b>	BCMNPNDTIQWFJZ-UHFFFAOYSA-N
<b>Formula:</b>	C24H22O4
<b>SMILES:</b>	CCc1ccccc1OC(=O)c1cccc(C(=O)Oc2ccccc2CC)c1
<b>Mol. weight [g/mol]:</b>	374.43

## Physical Properties

Property code	Value	Unit	Source
gf	-8.30	kJ/mol	Joback Method
hf	-353.11	kJ/mol	Joback Method
hfus	44.45	kJ/mol	Joback Method
hvap	96.14	kJ/mol	Joback Method
log10ws	-7.25		Crippen Method
logp	5.250		Crippen Method
mvol	292.620	ml/mol	McGowan Method
pc	1623.29	kPa	Joback Method
rinpol	3001.00		NIST Webbook
rinpol	3001.00		NIST Webbook
tb	996.08	K	Joback Method
tc	1242.38	K	Joback Method
tf	621.38	K	Joback Method
vc	1.103	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	906.66	J/molxK	996.08	Joback Method
cpg	950.85	J/molxK	1201.33	Joback Method
cpg	944.82	J/molxK	1160.28	Joback Method
cpg	937.44	J/molxK	1119.23	Joback Method
cpg	928.67	J/molxK	1078.18	Joback Method
cpg	918.43	J/molxK	1037.13	Joback Method
cpg	955.60	J/molxK	1242.38	Joback Method
dvisc	0.0000346	Paxs	996.08	Joback Method

dvisc	0.0000431	Paxs	933.63	Joback Method
dvisc	0.0000553	Paxs	871.18	Joback Method
dvisc	0.0000738	Paxs	808.73	Joback Method
dvisc	0.0001034	Paxs	746.28	Joback Method
dvisc	0.0001539	Paxs	683.83	Joback Method
dvisc	0.0002483	Paxs	621.38	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U356767&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U356767&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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