

# Isophthalic acid, 3,4-dimethylphenyl undecyl ester

Inchi:	InChI=1S/C27H36O4/c1-4-5-6-7-8-9-10-11-12-18-30-26(28)23-14-13-15-24(20-23)27(29)
InchiKey:	RXJPIBLNYBSQBM-UHFFFAOYSA-N
Formula:	C27H36O4
SMILES:	CCCCCCCCCOC(=O)c1cccc(C(=O)Oc2ccc(C)c(C)c2)c1
Mol. weight [g/mol]:	424.57

## Physical Properties

Property code	Value	Unit	Source
gf	-95.45	kJ/mol	Joback Method
hf	-651.56	kJ/mol	Joback Method
hfus	58.17	kJ/mol	Joback Method
hvap	100.55	kJ/mol	Joback Method
log10ws	-8.94		Crippen Method
logp	7.210		Crippen Method
mvol	358.650	ml/mol	McGowan Method
pc	1039.91	kPa	Joback Method
rinpol	3421.00		NIST Webbook
rinpol	3421.00		NIST Webbook
tb	1038.04	K	Joback Method
tc	1271.10	K	Joback Method
tf	628.77	K	Joback Method
vc	1.379	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1196.79	J/molxK	1038.04	Joback Method
cpg	1252.82	J/molxK	1232.26	Joback Method
cpg	1244.61	J/molxK	1193.42	Joback Method
cpg	1234.96	J/molxK	1154.57	Joback Method
cpg	1223.81	J/molxK	1115.73	Joback Method
cpg	1211.11	J/molxK	1076.88	Joback Method
cpg	1259.63	J/molxK	1271.10	Joback Method
dvisc	0.0000214	Paxs	1038.04	Joback Method

dvisc	0.0000272	Paxs	969.83	Joback Method
dvisc	0.0000357	Paxs	901.62	Joback Method
dvisc	0.0000491	Paxs	833.40	Joback Method
dvisc	0.0000714	Paxs	765.19	Joback Method
dvisc	0.0001118	Paxs	696.98	Joback Method
dvisc	0.0001928	Paxs	628.77	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=U344448&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U344448&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>

## 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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