

# Isophthalic acid, 3,4-dimethylphenyl hexyl ester

Inchi:	InChI=1S/C22H26O4/c1-4-5-6-7-13-25-21(23)18-9-8-10-19(15-18)22(24)26-20-12-11-16
InchiKey:	UKGYATZSMMVQFU-UHFFFAOYSA-N
Formula:	C22H26O4
SMILES:	CCCCCOC(=O)c1cccc(C(=O)Oc2ccc(C)c(C)c2)c1
Mol. weight [g/mol]:	354.44

## Physical Properties

Property code	Value	Unit	Source
gf	-137.55	kJ/mol	Joback Method
hf	-548.36	kJ/mol	Joback Method
hfus	45.22	kJ/mol	Joback Method
hvap	89.42	kJ/mol	Joback Method
log10ws	-6.85		Crippen Method
logp	5.260		Crippen Method
mcvol	288.200	ml/mol	McGowan Method
pc	1455.68	kPa	Joback Method
rinpol	2887.00		NIST Webbook
rinpol	2887.00		NIST Webbook
tb	923.64	K	Joback Method
tc	1146.93	K	Joback Method
tf	572.42	K	Joback Method
vc	1.099	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	895.70	J/molxK	923.64	Joback Method
cpg	909.81	J/molxK	960.86	Joback Method
cpg	922.57	J/molxK	998.07	Joback Method
cpg	934.00	J/molxK	1035.29	Joback Method
cpg	944.15	J/molxK	1072.50	Joback Method
cpg	953.03	J/molxK	1109.72	Joback Method
cpg	960.67	J/molxK	1146.93	Joback Method
dvisc	0.0003310	Paxs	572.42	Joback Method

dvisc	0.0002025	Paxs	630.96	Joback Method
dvisc	0.0001347	Paxs	689.49	Joback Method
dvisc	0.0000955	Paxs	748.03	Joback Method
dvisc	0.0000711	Paxs	806.57	Joback Method
dvisc	0.0000552	Paxs	865.10	Joback Method
dvisc	0.0000442	Paxs	923.64	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U344444&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U344444&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>mccvol:</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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