

# Isophthalic acid, 3,7-dimethyloct-6-enyl dodecyl ester

<b>Inchi:</b>	InChI=1S/C30H48O4/c1-5-6-7-8-9-10-11-12-13-14-22-33-29(31)27-19-16-20-28(24-27)3
<b>InchiKey:</b>	URQMDQUUCUCMST-UHFFFAOYSA-N
<b>Formula:</b>	C30H48O4
<b>SMILES:</b>	CCCCCCCCCCCCOC(=O)c1cccc(C(=O)OCCC(C)CCC=C(C)C)c1
<b>Mol. weight [g/mol]:</b>	472.70

## Physical Properties

Property code	Value	Unit	Source
gf	-94.11	kJ/mol	Joback Method
hf	-824.92	kJ/mol	Joback Method
hfus	68.05	kJ/mol	Joback Method
hvap	103.27	kJ/mol	Joback Method
log10ws	-9.94		Crippen Method
logp	8.694		Crippen Method
mcvol	420.380	ml/mol	McGowan Method
pc	761.00	kPa	Joback Method
rinsol	3384.00		NIST Webbook
tb	1073.64	K	Joback Method
tc	1322.23	K	Joback Method
tf	577.08	K	Joback Method
vc	1.631	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1468.06	J/molxK	1073.64	Joback Method
cpg	1486.73	J/molxK	1115.07	Joback Method
cpg	1503.66	J/molxK	1156.50	Joback Method
cpg	1518.96	J/molxK	1197.94	Joback Method
cpg	1532.74	J/molxK	1239.37	Joback Method
cpg	1545.13	J/molxK	1280.80	Joback Method
cpg	1556.22	J/molxK	1322.23	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=U356745&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U356745&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>hvpap:</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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