

# Isophthalic acid, 2-methylprop-2-en-1-yl octyl ester

<b>Inchi:</b>	InChI=1S/C20H28O4/c1-4-5-6-7-8-9-13-23-19(21)17-11-10-12-18(14-17)20(22)24-15-16
<b>InchiKey:</b>	RAZRHVLMYSKROS-UHFFFAOYSA-N
<b>Formula:</b>	C20H28O4
<b>SMILES:</b>	<chem>C=C(C)COC(=O)c1cccc(C(=O)OCCCCCCCC)c1</chem>
<b>Mol. weight [g/mol]:</b>	332.43

## Physical Properties

Property code	Value	Unit	Source
gf	-168.25	kJ/mol	Joback Method
hf	-605.03	kJ/mol	Joback Method
hfus	44.19	kJ/mol	Joback Method
hvap	80.77	kJ/mol	Joback Method
log10ws	-6.00		Crippen Method
logp	4.937		Crippen Method
mvol	279.480	ml/mol	McGowan Method
pc	1389.18	kPa	Joback Method
rinpol	2501.00		NIST Webbook
rinpol	2501.00		NIST Webbook
tb	837.80	K	Joback Method
tc	1040.87	K	Joback Method
tf	482.70	K	Joback Method
vc	1.077	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	850.07	J/mol×K	837.80	Joback Method
cpg	865.85	J/mol×K	871.65	Joback Method
cpg	880.51	J/mol×K	905.49	Joback Method
cpg	894.10	J/mol×K	939.34	Joback Method
cpg	906.63	J/mol×K	973.18	Joback Method
cpg	918.14	J/mol×K	1007.03	Joback Method
cpg	928.66	J/mol×K	1040.87	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=U343951&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U343951&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>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>rinpola:</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

Latest version available from:

<https://www.chemeo.com/cid/87-452-4/Isophthalic-acid-2-methylprop-2-en-1-yl-octyl-ester.pdf>

Generated by Cheméo on 2024-04-25 19:03:20.054230168 +0000 UTC m=+16361048.974807480.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.