

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

Inchi:	InChI=1S/C21H30O4/c1-4-5-6-7-8-9-10-14-24-20(22)18-12-11-13-19(15-18)21(23)25-16
InchiKey:	XEMFCKQLDTURHE-UHFFFAOYSA-N
Formula:	C21H30O4
SMILES:	<chem>C=C(C)COC(=O)c1cccc(C(=O)OCCCCCCCC)c1</chem>
Mol. weight [g/mol]:	346.46

## Physical Properties

Property code	Value	Unit	Source
gf	-159.83	kJ/mol	Joback Method
hf	-625.67	kJ/mol	Joback Method
hfus	46.78	kJ/mol	Joback Method
hvap	83.00	kJ/mol	Joback Method
log10ws	-6.41		Crippen Method
logp	5.327		Crippen Method
mcvol	293.570	ml/mol	McGowan Method
pc	1294.86	kPa	Joback Method
rinpol	2607.00		NIST Webbook
rinpol	2607.00		NIST Webbook
tb	860.68	K	Joback Method
tc	1064.32	K	Joback Method
tf	493.97	K	Joback Method
vc	1.133	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	909.00	J/mol×K	860.68	Joback Method
cpg	924.98	J/mol×K	894.62	Joback Method
cpg	939.81	J/mol×K	928.56	Joback Method
cpg	953.53	J/mol×K	962.50	Joback Method
cpg	966.16	J/mol×K	996.44	Joback Method
cpg	977.74	J/mol×K	1030.38	Joback Method
cpg	988.30	J/mol×K	1064.32	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=U343952&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U343952&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>hvp:</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>rinp:</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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