

# Isophthalic acid, di(2,7-dimethyloct-7-en-5-yn-4-yl) ester

Inchi:	InChI=1S/C28H34O4/c1-19(2)12-14-25(16-21(5)6)31-27(29)23-10-9-11-24(18-23)28(30)
InchiKey:	BNNGIDHFWUWUOI-UHFFFAOYSA-N
Formula:	C28H34O4
SMILES:	<chem>C=C(C)C#CC(CC(C)C)OC(=O)c1cccc(C(=O)OC(C#CC(=C)C)CC(C)C)c1</chem>
Mol. weight [g/mol]:	434.57

## Physical Properties

Property code	Value	Unit	Source
gf	374.24	kJ/mol	Joback Method
hf	-131.03	kJ/mol	Joback Method
hfus	54.47	kJ/mol	Joback Method
hvap	100.74	kJ/mol	Joback Method
log10ws	-8.53		Crippen Method
logp	5.989		Crippen Method
mvol	370.700	ml/mol	McGowan Method
pc	1073.57	kPa	Joback Method
rinpol	2855.00		NIST Webbook
rinpol	2855.00		NIST Webbook
tb	1033.64	K	Joback Method
tc	1272.99	K	Joback Method
tf	709.34	K	Joback Method
vc	1.407	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1193.53	J/mol×K	1033.64	Joback Method
cpg	1208.50	J/mol×K	1073.53	Joback Method
cpg	1221.95	J/mol×K	1113.42	Joback Method
cpg	1233.97	J/mol×K	1153.32	Joback Method
cpg	1244.63	J/mol×K	1193.21	Joback Method
cpg	1254.00	J/mol×K	1233.10	Joback Method
cpg	1262.15	J/mol×K	1272.99	Joback Method

# Sources

<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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=U343852&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U343852&amp;Units=SI</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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