

# Isophthalic acid, heptyl 3-methylbut-2-en-1-yl ester

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

## Physical Properties

Property code	Value	Unit	Source
gf	-175.87	kJ/mol	Joback Method
hf	-613.24	kJ/mol	Joback Method
hfus	45.67	kJ/mol	Joback Method
hvap	81.40	kJ/mol	Joback Method
log10ws	-6.00		Crippen Method
logp	4.937		Crippen Method
mcvol	279.480	ml/mol	McGowan Method
pc	1399.59	kPa	Joback Method
rinpol	2552.00		NIST Webbook
rinpol	2552.00		NIST Webbook
tb	845.28	K	Joback Method
tc	1051.09	K	Joback Method
tf	479.38	K	Joback Method
vc	1.077	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	850.90	J/mol×K	845.28	Joback Method
cpg	866.69	J/mol×K	879.58	Joback Method
cpg	881.40	J/mol×K	913.88	Joback Method
cpg	895.05	J/mol×K	948.18	Joback Method
cpg	907.69	J/mol×K	982.49	Joback Method
cpg	919.35	J/mol×K	1016.79	Joback Method
cpg	930.07	J/mol×K	1051.09	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=U343939&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U343939&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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