

# Benzoic acid, 4,4-dimethylpent-2-yl ester

<b>Inchi:</b>	InChI=1S/C14H20O2/c1-11(10-14(2,3)4)16-13(15)12-8-6-5-7-9-12/h5-9,11H,10H2,1-4H3
<b>InchiKey:</b>	GZYLCLBBIWJZ-UHFFFAOYSA-N
<b>Formula:</b>	C14H20O2
<b>SMILES:</b>	CC(CC(C)(C)C)OC(=O)c1ccccc1
<b>Mol. weight [g/mol]:</b>	220.31

## Physical Properties

Property code	Value	Unit	Source
gf	-54.11	kJ/mol	Joback Method
hf	-354.59	kJ/mol	Joback Method
hfus	17.91	kJ/mol	Joback Method
hvap	56.51	kJ/mol	Joback Method
log10ws	-4.10		Crippen Method
logp	3.668		Crippen Method
mcvol	191.800	ml/mol	McGowan Method
pc	2147.32	kPa	Joback Method
rinpola	1507.00		NIST Webbook
tb	619.02	K	Joback Method
tc	834.56	K	Joback Method
tf	333.54	K	Joback Method
vc	0.719	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	497.56	J/molxK	619.02	Joback Method
cpg	515.08	J/molxK	654.94	Joback Method
cpg	531.45	J/molxK	690.87	Joback Method
cpg	546.72	J/molxK	726.79	Joback Method
cpg	560.96	J/molxK	762.71	Joback Method
cpg	574.20	J/molxK	798.64	Joback Method
cpg	586.51	J/molxK	834.56	Joback Method
dvisc	0.0030275	Paxs	333.54	Joback Method
dvisc	0.0012758	Paxs	381.12	Joback Method

dvisc	0.0006513	Paxs	428.70	Joback Method
dvisc	0.0003803	Paxs	476.28	Joback Method
dvisc	0.0002449	Paxs	523.86	Joback Method
dvisc	0.0001697	Paxs	571.44	Joback Method
dvisc	0.0001244	Paxs	619.02	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U368701&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U368701&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>
<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>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>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

Latest version available from:

<https://www.chemeo.com/cid/23-581-1/Benzoic-acid-4-4-dimethylpent-2-yl-ester.pdf>

Generated by Cheméo on 2024-04-25 06:21:16.599518613 +0000 UTC m=+16315325.520095972.

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