

# Benzoic acid, 3-methyl-, 3-methylbut-2-yl ester

<b>Inchi:</b>	InChI=1S/C13H18O2/c1-9(2)11(4)15-13(14)12-7-5-6-10(3)8-12/h5-9,11H,1-4H3
<b>InchiKey:</b>	IVFWWWQYWVNZVMP-UHFFFAOYSA-N
<b>Formula:</b>	C13H18O2
<b>SMILES:</b>	<chem>Cc1cccc(C(=O)OC(C)C(C)C)c1</chem>
<b>Mol. weight [g/mol]:</b>	206.28

## Physical Properties

Property code	Value	Unit	Source
gf	-77.44	kJ/mol	Joback Method
hf	-341.95	kJ/mol	Joback Method
hfus	18.82	kJ/mol	Joback Method
hvap	55.85	kJ/mol	Joback Method
log10ws	-3.73		Crippen Method
logp	3.196		Crippen Method
mcvol	177.710	ml/mol	McGowan Method
pc	2293.71	kPa	Joback Method
rinqol	1512.00		NIST Webbook
tb	603.91	K	Joback Method
tc	816.07	K	Joback Method
tf	317.37	K	Joback Method
vc	0.667	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	443.86	J/molxK	603.91	Joback Method
cpg	516.30	J/molxK	780.71	Joback Method
cpg	503.59	J/molxK	745.35	Joback Method
cpg	490.01	J/molxK	709.99	Joback Method
cpg	475.54	J/molxK	674.63	Joback Method
cpg	460.17	J/molxK	639.27	Joback Method
cpg	528.17	J/molxK	816.07	Joback Method
dvisc	0.0001436	Paxs	603.91	Joback Method
dvisc	0.0001898	Paxs	556.15	Joback Method

dvisc	0.0002643	Paxs	508.40	Joback Method
dvisc	0.0003943	Paxs	460.64	Joback Method
dvisc	0.0006450	Paxs	412.88	Joback Method
dvisc	0.0012004	Paxs	365.13	Joback Method
dvisc	0.0026930	Paxs	317.37	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=U355705&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U355705&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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

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