

# Benzoic acid, 4-tert-butyl-, propyl ester

<b>Inchi:</b>	InChI=1S/C14H20O2/c1-5-10-16-13(15)11-6-8-12(9-7-11)14(2,3)4/h6-9H,5,10H2,1-4H3
<b>InchiKey:</b>	IFFIRJMHMXRNHD-UHFFFAOYSA-N
<b>Formula:</b>	C14H20O2
<b>SMILES:</b>	CCCOC(=O)c1ccc(C(C)(C)C)cc1
<b>Mol. weight [g/mol]:</b>	220.31

## Physical Properties

Property code	Value	Unit	Source
gf	-61.30	kJ/mol	Joback Method
hf	-360.78	kJ/mol	Joback Method
hfus	21.04	kJ/mol	Joback Method
hvap	57.56	kJ/mol	Joback Method
log10ws	-3.86		Crippen Method
logp	3.551		Crippen Method
mcvol	191.800	ml/mol	McGowan Method
pc	2102.27	kPa	Joback Method
rinpol	1641.00		NIST Webbook
rinpol	1641.00		NIST Webbook
tb	624.44	K	Joback Method
tc	836.64	K	Joback Method
tf	361.06	K	Joback Method
vc	0.725	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	496.87	J/molxK	624.44	Joback Method
cpg	571.26	J/molxK	801.27	Joback Method
cpg	558.30	J/molxK	765.90	Joback Method
cpg	544.43	J/molxK	730.54	Joback Method
cpg	529.60	J/molxK	695.17	Joback Method
cpg	513.76	J/molxK	659.81	Joback Method
cpg	583.33	J/molxK	836.64	Joback Method
dvisc	0.0001311	Paxs	624.44	Joback Method

dvisc	0.0001716	Paxs	580.54	Joback Method
dvisc	0.0002346	Paxs	536.65	Joback Method
dvisc	0.0003391	Paxs	492.75	Joback Method
dvisc	0.0005268	Paxs	448.85	Joback Method
dvisc	0.0009004	Paxs	404.96	Joback Method
dvisc	0.0017532	Paxs	361.06	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.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=U406138&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406138&amp;Units=SI</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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