

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

<b>Inchi:</b>	InChI=1S/C22H36O2/c1-5-6-7-8-9-10-11-12-13-18-24-21(23)19-14-16-20(17-15-19)22(2
<b>InchiKey:</b>	XNTOKZLDGKOLNM-UHFFFAOYSA-N
<b>Formula:</b>	C22H36O2
<b>SMILES:</b>	CCCCCCCCCOC(=O)c1ccc(C(C)(C)C)cc1
<b>Mol. weight [g/mol]:</b>	332.52

## Physical Properties

Property code	Value	Unit	Source
gf	6.06	kJ/mol	Joback Method
hf	-525.90	kJ/mol	Joback Method
hfus	41.76	kJ/mol	Joback Method
hvap	75.36	kJ/mol	Joback Method
log10ws	-7.21		Crippen Method
logp	6.672		Crippen Method
mvol	304.520	ml/mol	McGowan Method
pc	1149.87	kPa	Joback Method
rinpol	2476.00		NIST Webbook
rinpol	2476.00		NIST Webbook
tb	807.48	K	Joback Method
tc	1004.62	K	Joback Method
tf	451.22	K	Joback Method
vc	1.173	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	946.21	J/molxK	807.48	Joback Method
cpg	1029.87	J/molxK	971.77	Joback Method
cpg	1015.19	J/molxK	938.91	Joback Method
cpg	999.53	J/molxK	906.05	Joback Method
cpg	982.86	J/molxK	873.19	Joback Method
cpg	965.10	J/molxK	840.34	Joback Method
cpg	1043.63	J/molxK	1004.62	Joback Method
dvisc	0.0000457	Paxs	807.48	Joback Method

dvisc	0.0000613	Paxs	748.10	Joback Method
dvisc	0.0000863	Paxs	688.73	Joback Method
dvisc	0.0001297	Paxs	629.35	Joback Method
dvisc	0.0002121	Paxs	569.97	Joback Method
dvisc	0.0003891	Paxs	510.60	Joback Method
dvisc	0.0008371	Paxs	451.22	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U406147&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406147&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

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