

# 3,5-di-tert-Butyl-4-hydroxybenzyl alcohol

**Other names:**

3,5-di-t-Butyl-4-hydroxybenzyl alcohol  
2,6-di-tert-Butyl-4-hydroxymethyl phenol  
2,6-di-t-Butyl-4-hydroxymethylphenol  
Benzenemethanol, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-  
AO 754  
Benzyl alcohol, 3,5-di-tert-butyl-4-hydroxy-  
Ionox 100  
Ionox 100 antioxidant  
Antioxidant 754  
Benzenemethanol, 4-hydroxy-3,5-di-tert-butyl  
3,5-Bis(1,1-dimethylethyl)-4-hydroxybenzenemethanol  
NSC 159133  
Benzenemethanol, 4-hydroxy-3,5-di-tert.-butyl

**Inchi:**

InChI=1S/C15H24O2/c1-14(2,3)11-7-10(9-16)8-12(13(11)17)15(4,5)6/h7-8,16-17H,9H2,1

**InchiKey:**

HNURKXXMYARGAY-UHFFFAOYSA-N

**Formula:**

C15H24O2

**SMILES:**

CC(C)(C)c1cc(CO)cc(C(C)(C)C)c1O

**Mol. weight [g/mol]:**

236.35

**CAS:**

88-26-6

## Physical Properties

Property code	Value	Unit	Source
gf	-117.19	kJ/mol	Joback Method
hf	-486.38	kJ/mol	Joback Method
hfus	22.91	kJ/mol	Joback Method
hvap	79.69	kJ/mol	Joback Method
log10ws	-3.79		Crippen Method
logp	3.479		Crippen Method
mccvol	210.190	ml/mol	McGowan Method
pc	2315.84	kPa	Joback Method
tb	745.58	K	Joback Method
tc	956.84	K	Joback Method
tf	487.65	K	Joback Method
vc	0.731	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	621.90	J/molxK	745.58	Joback Method
cpg	636.26	J/molxK	780.79	Joback Method
cpg	649.84	J/molxK	816.00	Joback Method
cpg	662.76	J/molxK	851.21	Joback Method
cpg	675.13	J/molxK	886.42	Joback Method
cpg	687.06	J/molxK	921.63	Joback Method
cpg	698.67	J/molxK	956.84	Joback Method
dvisc	0.0001656	Paxs	487.65	Joback Method
dvisc	0.0000575	Paxs	530.64	Joback Method
dvisc	0.0000234	Paxs	573.63	Joback Method
dvisc	0.0000108	Paxs	616.62	Joback Method
dvisc	0.0000055	Paxs	659.60	Joback Method
dvisc	0.0000031	Paxs	702.59	Joback Method
dvisc	0.0000018	Paxs	745.58	Joback Method

## Sources

<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=C88266&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C88266&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>

## 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>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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