

Certificate of Analysis

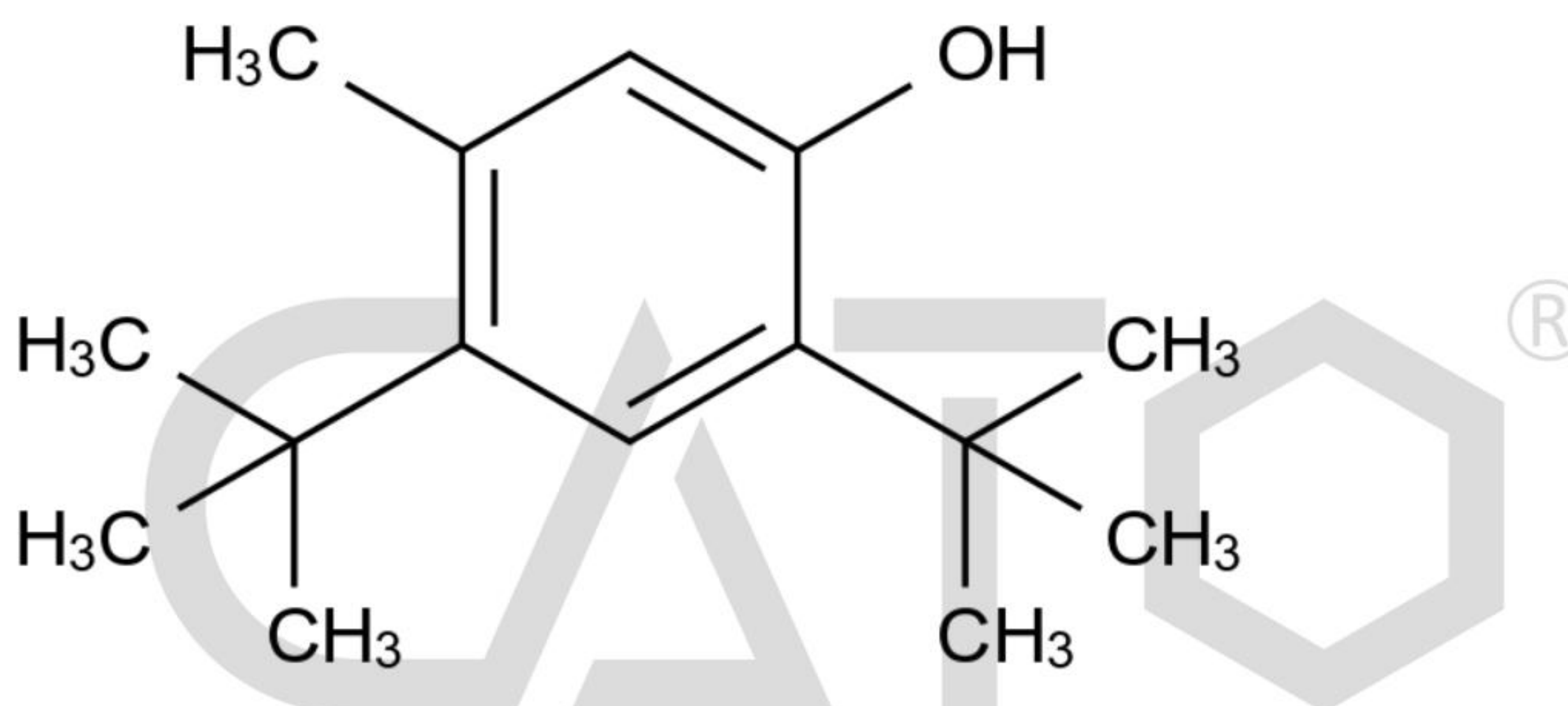
Reference Material & Standard

Product Name:	4,6-Di-tert-butyl-m-cresol	Catalogue Number:	C1707474
Synonyms:	N/A	Lot Number:	0301-RF-0018
CAS Number:	497-39-2	Expiry Date:	Mar 04, 2028
Molecular Formula:	C ₁₅ H ₂₄ O	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	220.35	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow Solid
Identification	LCMS&IR&HNMR	Confirmed
Purity	HPLC	99.460%
Residue on Ignition	TGA	0.5302%
Loss on Drying	TGA	1.0328%
Assay		97.9%
Uncertainty		±0.2%

Comment:

- The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Residue on Ignition} - \text{Loss on Drying}) * \text{Purity HPLC (\%)} / 100\%$$
Residue on Ignition and Loss on Drying are considered as absolute effect, HPLC purity is considered as relative effect.
- The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

Nice

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Jul 28, 2026

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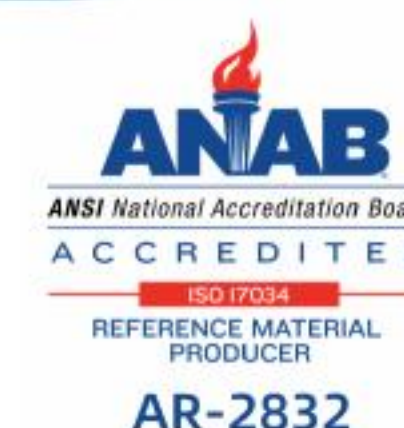
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