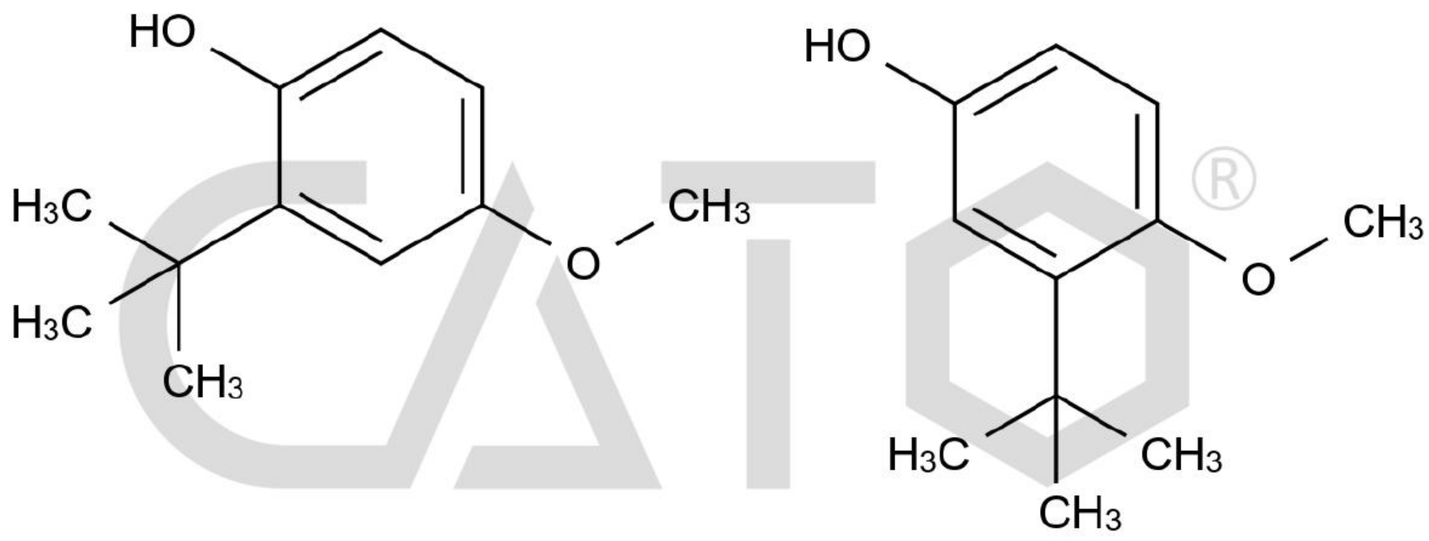
# Certificate of Analysis

## Reference Material & Standard

| | | | |
|---|---|---|---|
| **Product Name:** | Tert-Butyl-4-Hydroxyanisole (Mixture Of 2- And 3-Isomer) | **Catalogue Number:** | CCFD200248 |
| **Synonyms:** | N/A | **Lot Number:** | 1029-RH-0110 |
| **CAS Number:** | 25013-16-5 | **Expiry Date:** | Nov 04, 2032 |
| **Molecular Formula:** | $C_{11}H_{16}O_2$ | **Storage:** | Room Temp Protected from light and Sealed |
| **Molecular Weight:** | 2*180.24 | **Shipping Condition:** | Shipping at Room Temperature |
| | | **Warning:** |  |

**Chemical Structure:**




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| Test Items | Method | Results |
|---|---|---|
| **Appearance** | Visual inspection | Light Yellow Solid |
| **Identification** | GCMS&HNMR | Confirmed |
| **Purity** | GC | 99.763% |
| **Water Content** | Karl Fischer | 0.3005% |
| **Assay** | Mass Balance | 99.5% |
| **Uncertainty** | | ±0.2% |

## Comment:

*1. The calculation of the mass balance method follows the formula (calculated on the non-dried basis):*
*Assay (%) = (100%-Water Content) * Purity GC (%) /100%*
*Water Content is considered as absolute effect, GC purity is considered as relative effect.*
*2. 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: Alice Date: Nov 05, 2026

Reviewed by: Lisa Date: Nov 05, 2026

Approved by General Manager: David Date: Nov 05, 2026

CATO Research Chemicals Inc.