

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

# Certificate of Analysis

Date of Testing: 2026-01-09 18:09:23

Date of Next Testing: 2029-01-08 18:09:23

Product Name: **2,6-Di-tert-butyl-4-methylphenol(BHT)**

CAS Number: 128-37-0

Specifications & Purity: E 321

Lot #: A2605447

SKU #: **B431698**

Version **1**

**Analysis #:** **638173**

Storage Temperature: Protected from light,Room temperature,Argon charged,Desiccated

| Parameter                                                                              | Limit Values | Result        |
|----------------------------------------------------------------------------------------|--------------|---------------|
| Purity(GC)                                                                             | 99-100 (%)   | 99.96400 %    |
| Melting point                                                                          | 69-72 (°C)   | 71.54000 °C   |
| Absorption maximum $\lambda_{max}$ . (Ethanol abs.)                                    | 277-279 (nm) | 277.90000 nm  |
| Spicific Absorptivity A 1%/1cm ( $\lambda$ 278; 0.05 g/l; ethanol(95 %))               | 82-88        | 86.00000      |
| Heavy metals(as Pb)                                                                    | 0-20 (ppm)   | 10.00000 ppm  |
| Sulfate(SO42-)                                                                         | 0-150 (ppm)  | 100.00000 ppm |
| Arsenic(As)                                                                            | 0-3 (ppm)    | 1.25800 ppm   |
| Mercury(Hg)                                                                            | 0-1 (ppm)    | 0.06890 ppm   |
| Lead(Pb)                                                                               | 0-2 (ppm)    | 1.26980 ppm   |
| p-cresol                                                                               | 0-0.1 (%)    | 0.00240 %     |
| Methanol (HS-GC)                                                                       | ≤3000 (ppm)  | 600.00000 ppm |
| Toluene (HS-GC)                                                                        | ≤ 890 (ppm)  | 200.00000 ppm |
| Related substances (TLC)                                                               | ≤0.5 (%)     | 0.02350 %     |
| Related substances (HPLC) (p-Cresol or m-cresol)                                       | ≤0.1 (%)     | 0.00014 %     |
| Related substances (HPLC) (3-tert-butyl-4-hydroxyanisole)                              | ≤ 0.1 (%)    | 0.00600 %     |
| Related substances (HPLC) (3,5-Ditert-butyl-4-hydroxybenzoic acid)                     | ≤0.1 (%)     | 0.00170 %     |
| Related substances (HPLC) (2-tert-Butyl-4-methylphenol or 2-tert-butyl-5-methylphenol) | ≤0.1 (%)     | 0.00080 %     |
| Related substances (HPLC) (3,5-Ditert-butyl-4-hydroxy benzaldehyde)                    | ≤0.1 (%)     | 0.00010 %     |
| Related substances (HPLC) (4,6-Di-tert-butyl-m-cresol)                                 | ≤ 0.1 (%)    | 0.00060 %     |
| Related substances (HPLC) (2,6-Di-tert-butylphenol)                                    | ≤0.1 (%)     | 0.00800 %     |
| Related substances (HPLC) (Any unspecified impurity)                                   | ≤ 0.1 (%)    | 0.00056 %     |
| Related substances (HPLC) (Sum of all impurities)                                      | ≤ 0.7 (%)    | 0.00350 %     |
| Sulfated ash(600 °C)                                                                   | 0-0.002 (%)  | 0.00010 %     |
| Water by Karl Fischer                                                                  | 0-0.2 (%)    | 0.00180 %     |

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**Parameter**

Infrared spectrum

Appearance(B431698)

Appearance of solution(100 g/l, Methanol (Ph Eur)Clear and not more intense in color than reference solutionYs or BYs)

Other residual solvents (ICH Q3C,excluded by the production process)

**Limit Values**

Conforms to Structure

White to yellowish crystalline powder.  
pass

pass

**Result**

Conforms to Structure

White to yellowish crystalline powder  
Pass

Pass



John Su  
QA & QC Manager