

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Specification Sheet

Product Name: **2,6-Di-tert-butyl-4-methylphenol(BHT)**  
 Specifications & Purity: **E 321**  
 SKU #: **B431698**

Parameter	Limit Values
Purity(GC)	99-100 (%)
Infrared spectrum	Conforms to Structure
Appearance(B431698)	White to yellowish crystalline powder.
Appearance of solution(100 g/l, Methanol (Ph Eur)Clear and not more intense in color than pass reference solutionYs or BYs)	
Melting point	69-72 (°C)
Absorption maximum $\lambda_{max}$ . (Ethanol abs.)	277-279 (nm)
Specific Absorptivity A 1%/1cm ( $\lambda$ 278; 0.05 g/l; ethanol(95 %))	82-88
Heavy metals(as Pb)	0-20 (ppm)
Sulfate(SO <sub>4</sub> <sup>2-</sup> )	0-150 (ppm)
Arsenic(As)	0-3 (ppm)
Mercury(Hg)	0-1 (ppm)
Lead(Pb)	0-2 (ppm)
p-cresol	0-0.1 (%)
Methanol (HS-GC)	≤3000 (ppm)
Toluene (HS-GC)	≤ 890 (ppm)
Related substances (TLC)	≤0.5 (%)
Related substances (HPLC) (p-Cresol or m-cresol)	≤0.1 (%)
Related substances (HPLC) (3-tert-butyl-4-hydroxyanisole)	≤ 0.1 (%)
Related substances (HPLC) (3,5-Ditert-butyl-4-hydroxybenzoic acid)	≤0.1 (%)
Related substances (HPLC) (2-tert-Butyl-4-methylphenol or 2-tert-butyl-5-methylphenol)	≤0.1 (%)
Related substances (HPLC) (3,5-Ditert-butyl-4-hydroxy benzaldehyde)	≤0.1 (%)
Related substances (HPLC) (4,6-Di-tert-butyl-m-cresol)	≤ 0.1 (%)
Related substances (HPLC) (2,6-Di-tert-butylphenol)	≤0.1 (%)
Related substances (HPLC) (Any unspecified impurity)	≤ 0.1 (%)
Related substances (HPLC) (Sum of all impurities)	≤ 0.7 (%)
Other residual solvents (ICH Q3C,excluded by the production process)	pass
Sulfated ash(600 °C)	0-0.002 (%)
Water by Karl Fischer	0-0.2 (%)