

BHA / BHT / TBHQ

Antioxidant preservatives

Product Description

Butylated Hydroxyanisole (BHA), Butylated Hydroxytoluene (BHT) and Tertiary Butylhydroquinone (TBHQ) are lipid antioxidant preservatives used to prevent oxidative rancidity in fats, oils and pharmaceutical preparations.

Certificate of Analysis

HSN Code: 2907.19 CAS Number: BHA: 25013-16-5 / BHT: 128-07-01 / TBHQ: 1948-01-01 Classification: Pharmaceutical / Food Grade

Parameter	Specification	Test Method
Appearance (BHA)	White to slightly yellow waxy solid or flakes	Visual
Appearance (BHT)	White crystalline solid	Visual
Appearance (TBHQ)	White to pale beige crystalline powder	Visual
Assay (BHA)	98.5–101.0%	GC / Titration
Assay (BHT)	99.0–101.0%	GC / Titration
Assay (TBHQ)	99.0–101.0%	GC / Titration
Melting Point (BHA)	48–55°C	Capillary method
Melting Point (BHT)	69–73°C	Capillary method
Melting Point (TBHQ)	126–129°C	Capillary method
Loss on Drying	"d 0.2 %	Gravimetric 105°C/2h
Sulphated Ash	"d 0.1 %	Gravimetric
Heavy Metals (as Pb)	"d 10 ppm	ICP-MS

Physical Properties

Appearance: BHA: white waxy flakes; BHT: white crystalline solid; TBHQ: white to pale beige powder

Odor: BHA: faint characteristic phenolic; BHT: faint characteristic; TBHQ: faint characteristic

Molecular Formula: BHA: C₁₁H₁₄O, (MW 180.24) / BHT: C₁₁H₁₄O (MW 180.24) / TBHQ: C₁₅H₁₂O (MW 220.35)

Solubility: BHA/BHT: insoluble in water; soluble in ethanol, fats and oils; TBHQ: slightly soluble in water; soluble in ethanol

Packing: 25 kg HDPE drums or multi-ply paper bags; 1 kg / 5 kg bags for pharma use

Storage: Store in cool, dry, well-ventilated area. Protect from light, heat, and oxidizing agents. Keep containers tightly sealed.

Safety & Handling

PPE: Gloves, safety goggles, dust mask for powder/flake handling

Hazards:

- Mild skin and eye irritant
- Dust may cause respiratory irritation
- Combustible – keep from open flames