

Benzyl Alcohol / Benzyl Benzoate

Alcohol preservatives and solubilizers

Product Description

Benzyl Alcohol is used as a preservative and local anaesthetic in parenteral formulations. Benzyl Benzoate is used as a solubilizer and in scabicial preparations. Both available to BP/USP standards.

Certificate of Analysis

HSN Code: 2906.21

CAS Number: Benzyl Alcohol: 100-51-6 / Benzyl Benzoate: 100-51-4

Parameter	Specification	Test Method
Appearance	Clear colorless liquid (both)	Visual
Assay (Benzyl Alcohol)	99.0–100.5%	GC
Assay (Benzyl Benzoate)	99.0–100.5%	GC / Saponification
Identification (BA)	IR spectrum conforms	IR Spectroscopy
Density (BA) at 25°C	1.042–1.044 g/cm ³	ASTM D4052
Refractive Index (BA) at 20°C	1.538–1.541	Abbe refractometer
Acidity (as Benzoic Acid)	"d 0.05 %	Titration
Water Content	"d 0.1 %	Karl Fischer
Color (APHA)	"d 10	Hazen scale
Heavy Metals (as Pb)	"d 10 ppm	ICP-MS

Physical Properties

Appearance: Clear colorless liquid

Odor: Benzyl Alcohol: faint pleasant odor; Benzyl Benzoate: faint characteristic balsamic odor

Molecular Formula: BA: C_7H_8O (MW 108.14) / BB: $C_{14}H_{12}O_2$ (MW 212.25)

Solubility: BA: slightly soluble in water; miscible with ethanol, ether; BB: practically insoluble in water

Boiling Point: BA: 205°C / BB: 323°C

Packing: 25 kg / 200 kg HDPE or glass-lined drums; 1 L / 5 L amber glass bottles for pharma

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

Safety & Handling

PPE: Chemical-resistant gloves, safety goggles, protective clothing

Hazards:

- BA: harmful by inhalation and skin contact; CNS depressant at high doses
- BB: mild skin irritant; antiparasitic use