

1,2-Benzisothiazolin-3-One(BIT)

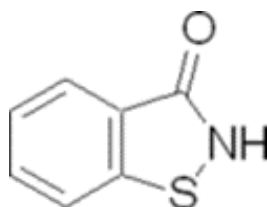
CAS No. 2634-33-5

EINECS No.: 220-120-9

Molecular Formula:C₇H₅NOS

Molecular Weight: 151.19

Structural Formula:



Properties:

[BIT](#) serves as a broad-spectrum, long-lasting biocide to kill many bacteria, fungi and yeasts, it will have a good antibacterial effect with a lowest concentration of 0.1%.

[BIT](#) has good compatibility with all kinds of emulsifiers, surfactants and other agents, miscible in the solutions of alcohol and water at any ratio.

[BIT](#) has wider applications than similar products, it is suitable for use in the medium of the pH value in the range of 4.0-12.

[BIT](#) has low toxicity, contains no heavy metals and halogen compounds, it is inactive to amines, free of formaldehyde.

BIT is suitable for applications in the water-based polymer, leather, paint, textile, printing and dyeing, metal cutting fluids, adhesives, inks, dyes, dye dispersants as preservative.

Specification:

Items	Index	
	Liquid I	Solid II
Appearance	Amber liquid	Yellow-white or off-white powder
Active content, %	20.0 min	85.0 min
pH(25°C,10% water solution)	11.0-13.0	-
Density (20°C), g/cm ³	1.10-1.20	-
Moisture %	-	15.0 max

Usage:

For use in cosmetics, body care products, and other daily chemicals, the concentration of using is in the range of 0.05-0.40% (w/w) depending on the storage environment and whether the product is susceptible to the destroy of microorganisms. The specific formula and instructions for the concentration of using will be based on the company's microbial technology division.

[BIT](#) can be added at any production step, but it's suggested to be added at the final step at less than 50°C, avoid adding at a temperature of higher than 50°C.

Package and Storage:

The liquid shall be packed in plastic drums, 25kg and 250kg per barrel, or according to the user's requirements; Solids are packed in 25kg fiber drums. Storage for one year in shady room and dry place.

Safety Protection:

The operation must be carried out in strict accordance with the regulations. Avoid contact with skin. Wear protective clothing, goggles and rubber gloves. In case of contact with skin, wash immediately with plenty of water and soap. If splashed into eyes, wash immediately with plenty of water and buffer.

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