



Technical Data Sheet

SAFRACOR BTA (High Purity Benzotriazole)

Product Overview

SAFRACOR BTA is a heterocyclic compound containing three nitrogen atoms with chemical formula $C_6H_5N_3$.

SAFRACOR BTA is an effective corrosion inhibitor for copper and its alloys by preventing undesirable surface reactions. It is known that a passive layer, consisting of a complex between copper and benzotriazole, is formed when copper is immersed in a solution containing benzotriazole. The passive layer is insoluble in aqueous and many organic solutions. There is a positive correlation between the thickness of the passive layer and the efficiency of preventing corrosion.

Applications

- Antifreeze (engine coolants)
- High water based hydraulic fluids (HFA)
- Water glycol hydraulic fluids (HFC)
- Metal working fluids (emulsions and synthetics)

Features and Benefits

- High Purity
- Easily dissolved solid needles
- Prevents cobalt leaching
- Protects copper / brass / aluminum + magnesium staining

Typical Properties

Properties	
Chemical formula	$C_6H_5N_3$
Molar mass	119.127 g-mol ⁻¹
Appearance	White Solid
Density	1.36 g/mL [1]
Melting point	100°C (212° F; 373K) [2]
Bolling point	350°C (662° F; 623K) [2]
Solubility in water	20 g/l [2]
Purity	99,82%



CAS NUMBER: 95-14-7 | EC NUMBER: 202-3941

Health and Safety

To obtain Material Safety Data Sheet (MSDS), contact our technical team

This information is given in good faith but without warranty as the use of the product is outside the control of TekLube.