

Analysis of impurities in crude benzotriazole

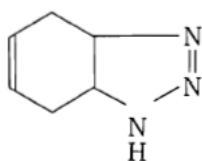
Benzotriazole is a corrosion inhibitor for copper, high copper alloys, silver, cobalt, aluminum, and zinc. Benzotriazole protects metals from corrosion in air. Benzotriazole protects copper and brass stock during shipment and storage and between processing steps. Impurities in crude benzotriazole were measured using HPLC with the silica-C18 column Finepak SIL C18S by gradient elution method using H₂O and CH₃OH as mobile phase.

Conditions:

Pump: PU-980
 Detector : UV-970
 Wavelength : 275nm
 Sensitivity : 0.16 AUFS
 Column : Finepak SIL C18S
 Eluent : A : H₂O
 B : CH₃OH

A/B 25 min 15 min
 (80/20)----- (0/100)----- (0/100)-----Initial
 Linear Hold

Flow rate : 1.0 ml/min
 Temperature : 40 degree celsius
 Sample : Crude benzotriazole



Benzotriazole

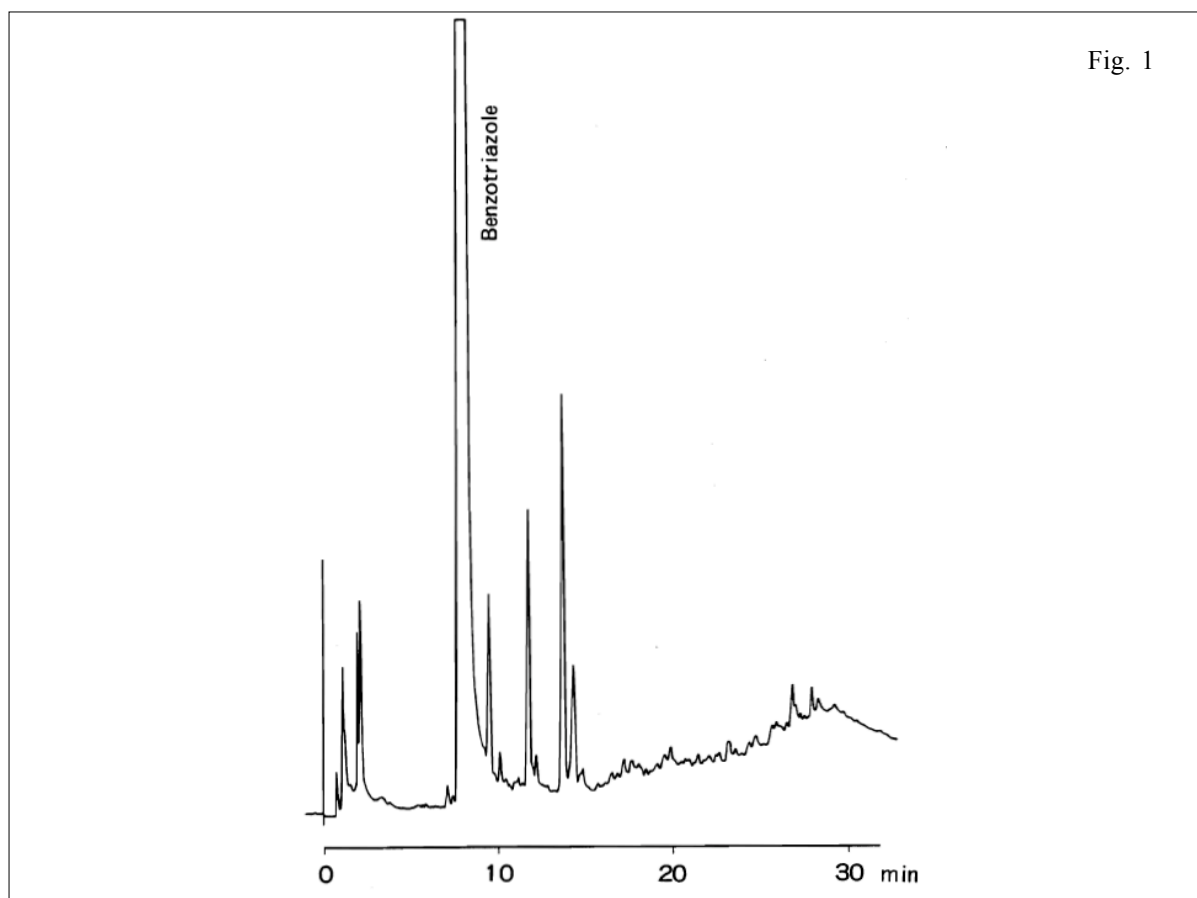


Fig. 1