

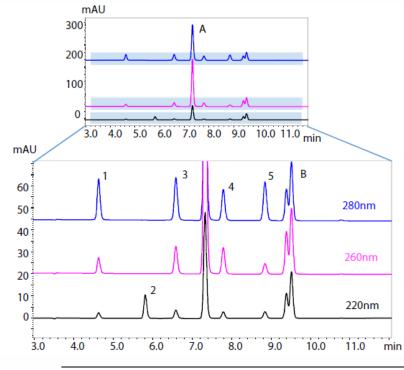
CoreFocus Report

No.163A

LC Reversed-phase Shim-pack Series

Shim-pack™ VP-ODS Analysis of Benzotriazole, Tolutriazole Derivatives and Furanic Compounds: Passivators in Insulating Oil

Keywords: BTA, tolutriazole derivative, TTAA, British Standards (BS148:2009), ASTM D5837-15 standards



- A. 1, 2, 3-Benzotriazole
- B. N-bis[2-ethylhexyl]-aminomethyltolutriazol
- 1. 5-Hydroxylmethyl-2-furaldehyde (5HMF)
- 2. Furfuryl alcohol (2FOL)
- 3. 2-Furaldehyde (2FAL)
- 4. 2-Acetylfuran (2ACF)
- 5. 5-Methyl-2-furaldehyde (5MEF)

A and B : 20000 μg/L 1, 2, 3, 4 and 5 : 1000 μg/L

System : ProminenceTM-i

Column : Shim-pack VP-ODS, (250 mm x 4.6 mm I.D. , 5 μm), P/N: 228-34937-92

Mobile phase : A) Water, B) Acetonitrile

Time program : B conc. 15-45% (0-10 min) \rightarrow 100% (10.01-20 min) \rightarrow 15% (20.01-30 min)

Flow rate : 1.0 mL/min
Column temp. : 40 °C
Injection vol. : 15 µL

Vial : LabTotal™ Vial for LC/LCMS, P/N: 227-34001-01

Detection : PDA 220 nm, 260 nm, 280 nm

Source : Application News L576 (JP, ENG)

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