GC Application

ID No.: **19291**



USP Glycerin Purity Assay on ZB-BAC-2

Column: Zebron™ ZB-BAC-2, GC Cap. Column 30 m x 0.53 mm x 2.00 μm, Ea

Proprietary Blood Alcohol Phase Phase: **Dimensions:** 30 meters x 0.53 mm x 2 μ m

7HK-G022-32 Order No:

100 °C for 4 min to 120 °C @ 50 °C/min for 10 min to 220 °C @ 50 **Oven Profile:**

°C/min for 6 min

Carrier Gas: Constant Flow Helium, 4.5 mL/min

Injection: Split 10:1 1 μL @ 220°C **Detection:** Flame Ionization (FID) (250°C)

Analyst Note: $Concentrations \ were \ 2.0 \ mg/mL \ Glycerin, \ 0.050 \ mg/mL \ ethylene \ glycol, \ 0.050 \ mg/mL \ diethylene \ glycol, \ and \ 0.10 \ diethylene \ glycol, \ and \ glycol,$

mg/mL 2,2,2-trichloroethanol (IS) Run as a dual column analysis with ZB-BAC-1

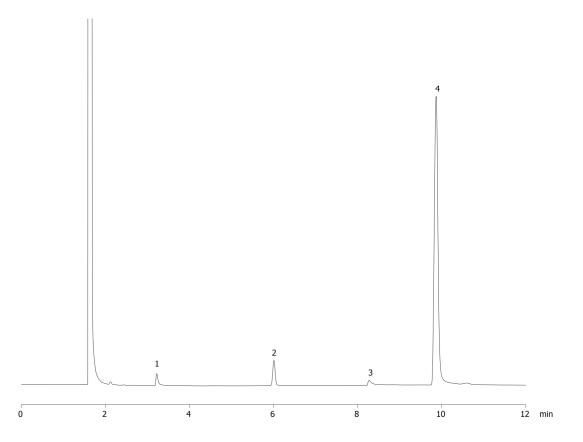
Resolution = 11.09 between glycerin and diethylene glycol





Products used in this application:





ANALYTES:

- Ethylene glycol
- 2,2,2-Trichloroethanol
- 3 Diethylene glycol
- Glycerin

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