## **GC Application** ID No.: **19290**



## **USP Glycerin Purity Assay on ZB-BAC-1**

Column: Zebron™ ZB-BAC-1, GC Cap. Column 30 m x 0.53 mm x 3.00 μm, Ea

Proprietary Blood Alcohol Phase Phase: **Dimensions:** 30 meters x 0.53 mm x 3  $\mu$ m

Order No: 7HK-G021-36

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:** Refractive Index (250°C)

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

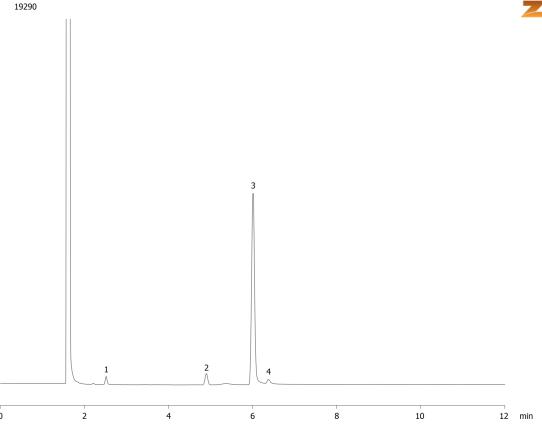
mg/mL 2,2,2-trichloroethanol (IS) Run as a dual column analysis with ZB-BAC-2

Resolution = 3.04 between glycerin and diethylene glycol



Products used in this application:





## **ANALYTES:**

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

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