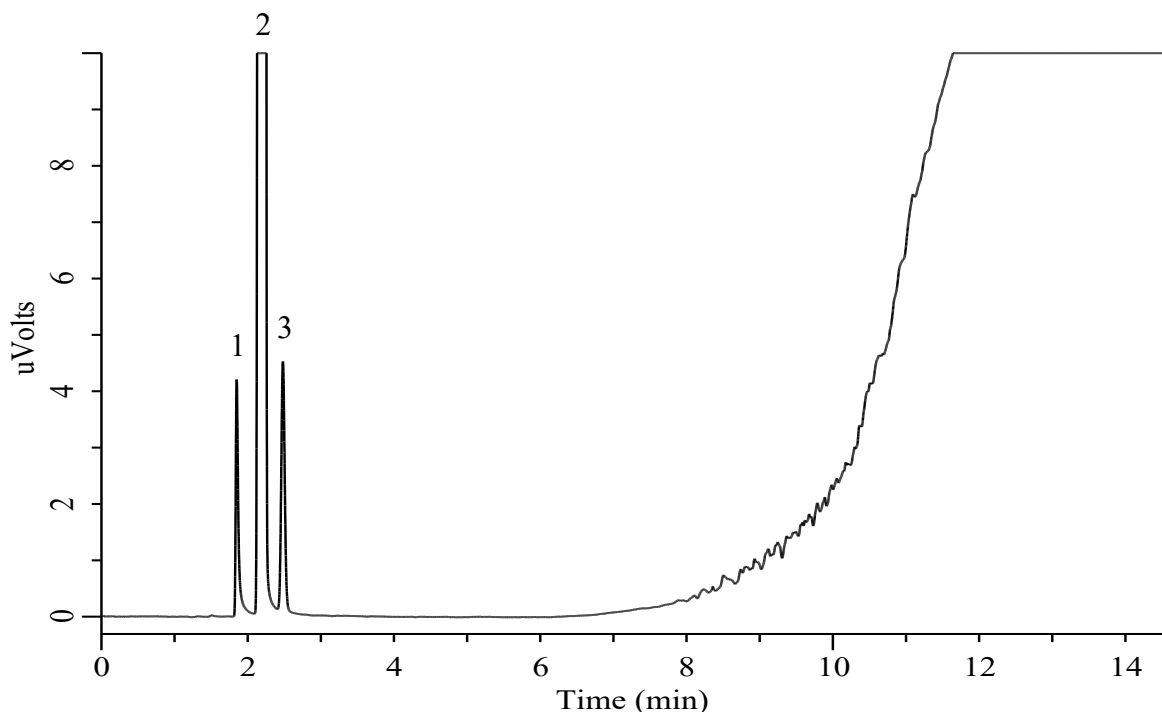


Analysis of Alcohol absolute

(Under the Condition of the draft for USP-NF, Benzalkonium Chloride Solution, Alcohol Content)



Conditions

System : GC-4000 Plus system
Column : InertCap 624 (GL Sciences Inc.)
 0.32 mm I.D. x 15 m df = 1.8 μ m
Col. Cat. No. : 1010-14982
Col. Temp. : 50 °C (4 min) - 10 °C/min - 70 °C
 - 50 °C/min - 300 °C (4 min)
Carrier Gas : He, 1.4 mL/min (6 min) - 5 mL/min²
 - 3 mL/min (8.6 min)
Injection : Split 105mL/min
 250 °C
Detection : FID Auto Range
 320 °C
Injection vol. : 0.5 μ L

Analyte

1. Alcohol, absolute 1.2 mg/mL
 2. 2-Propanol
 3. *t*-butyl alcohol (I.S.) 1.0 mg/mL
 Analyte in 2-propanol/H₂O=8/2 (v/v)

Relative retention times

Alcohol, absolute : 0.745 (RT=1.847)
 Isopropyl alcohol : 0.891 (RT=2.210)
t-butyl alcohol : 1.0 (RT=2.478)

Resolution (2,3) : 2.93 ($\geq$ 2.0)

RSD of the peak ratio of 1 to 3 (%) (n=6) : 0.86 %