

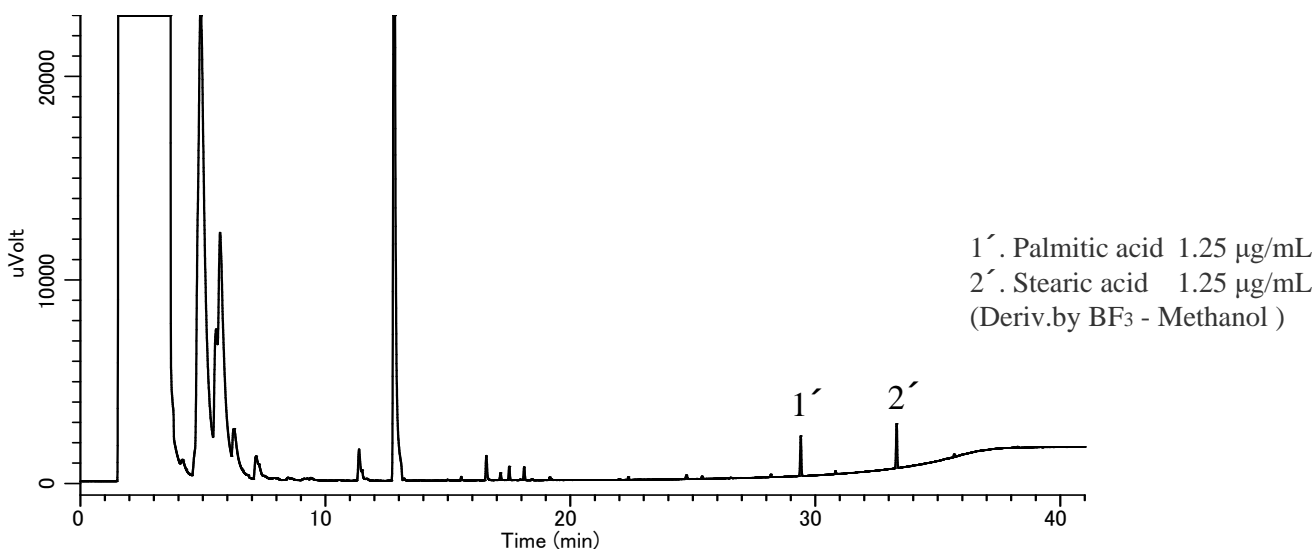
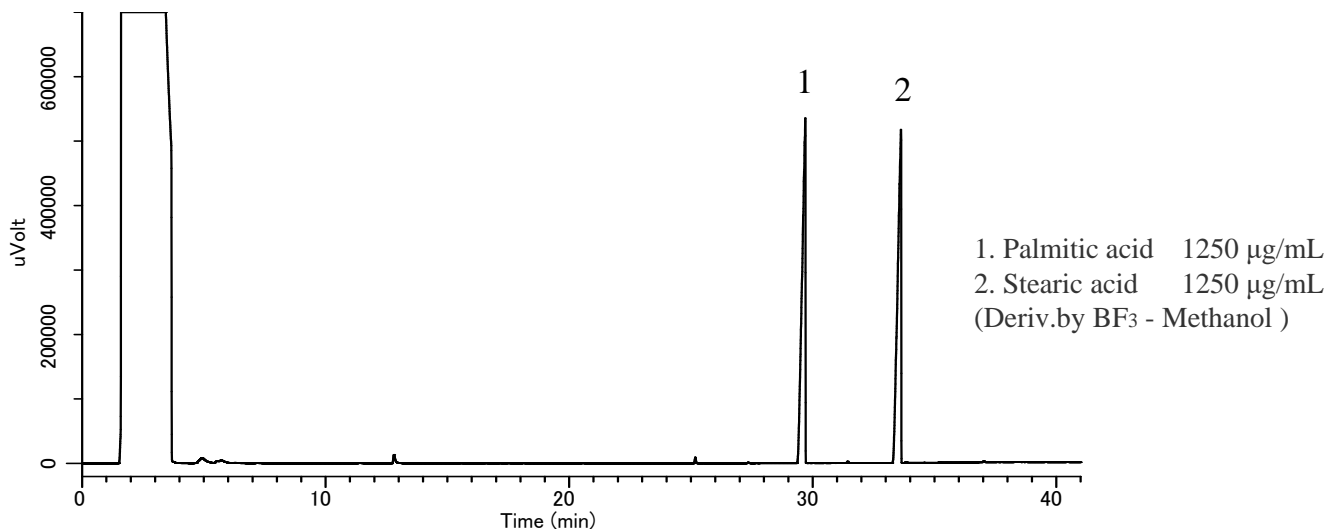
InertSearch™ for GC

InertCap® Applications

Analysis of Stearic Acid

(Under the Condition of Japanese Pharmacopoeia 16)

Data No. GA251-0904



Conditions

System : GC-FID
Column : InertCap Pure-WAX
0.32 mm I.D. x 30 m df = 0.50 µm
Col. Cat. No. : 1010-68244
Col. Temp. : 70 °C(2 min) – 5 °C/min – 240 °C(5 min)
Carrier Gas : He 80 kPa
Injection : Splitless 2 min
220 °C
Detection : FID Range 10⁴
260 °C
Sample size : 1.0 µL
Sample : Standard

Analyte

1. Palmitic acid
2. Stearic acid
(Deriv.by BF₃ - Methanol)

Resolution (1, 2) : 15.1 (≥ 5.0)
Relative retention time (1 to 2) : 0.88 (about 0.9)
The peak area ratio of 2' to 2 (%) : (0.05 ≤) 0.13 (≤ 0.15)
RSD of the peak area (1)(%)(n=6) : 1.25 (≤ 3.0)
RSD of the peak area (2)(%)(n=6) : 1.22 (≤ 3.0)
RSD of the peak area ratio
of 2 to 1 (%) (n=6) : 0.05 (≤ 1.0)