

Purity Test of Cyclohexane - with Reference to Japanese Industrial Standards (JIS)

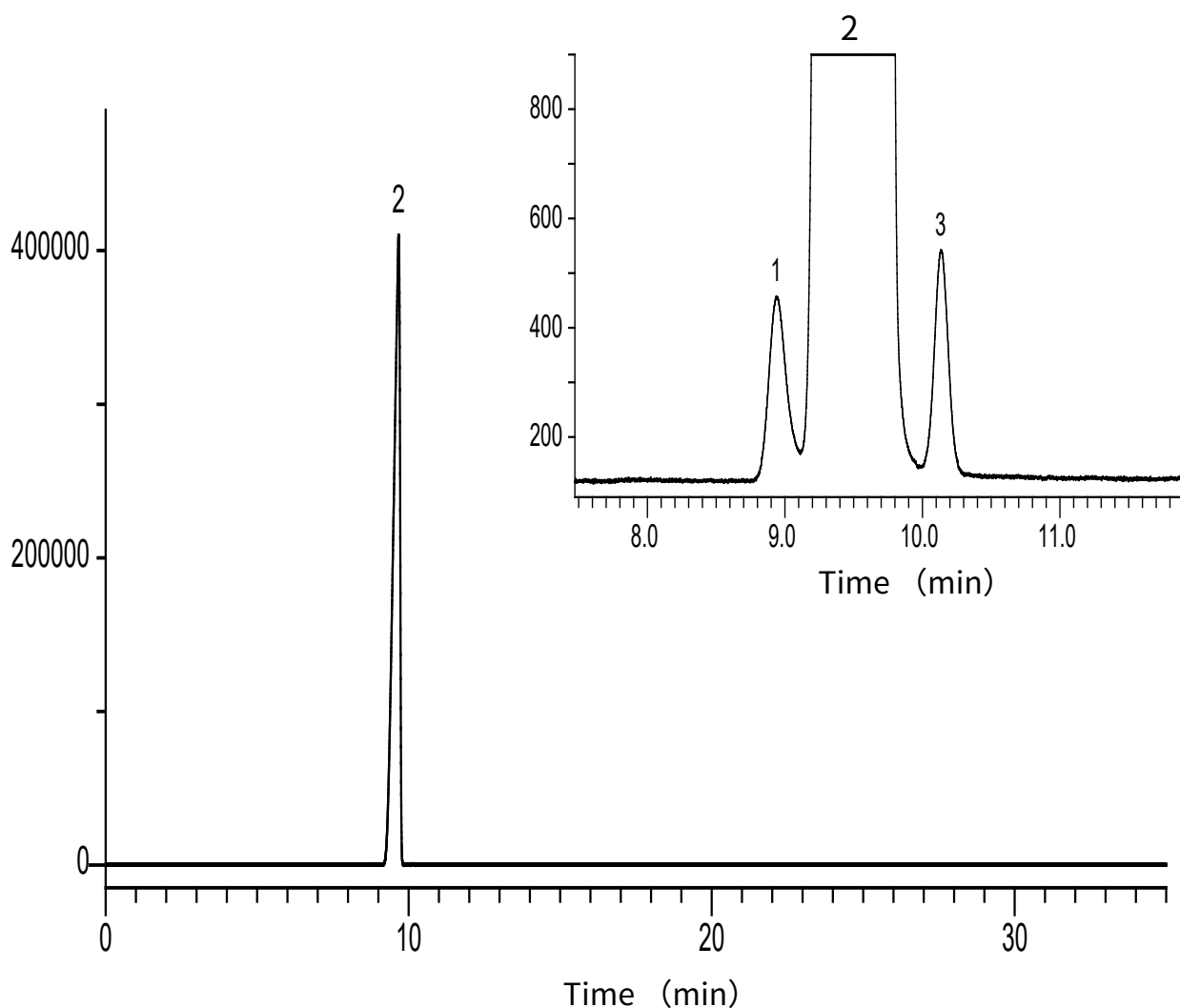
Cyclohexane is cycloalkane produced by the hydrogenation of benzene.

The JIS test method uses a capillary column to measure the purity of cyclohexane, with the standard values for cyclohexene and benzene defined as a mass fraction of 0.05 % or less.

In this application , benzene and cyclohexene were prepared in cyclohexane at a mass fraction of 0.05 % and measured.

The area percentage of benzene and cyclohexene was calculated, and excellent results were obtained.

Example: Measurement of standard



Analyte : 1. Benzene
2. Cyclohexane
3. Cyclohexene

Conditions

System : GC - FID
 Column : InertCap 1
 0.53 mm I.D. x 30 m df = 5.00 μ m
 Col. Temp. : 40 °C (5 min hold) - 5 °C/min - 190 °C
 Carrier Gas : He 25 kPa (5.0 mL/min)
 Injection : Splitless 1 min Vent flow 50 mL/min
 200 °C
 Detection : FID Range 10³
 200 °C
 Sample Size : 0.2 μ L

Area percentages

	Area	Area (%)
Benzene	3073	0.050
Cyclohexane	3038	0.050
Cyclohexane	6091108	99.90

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