

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

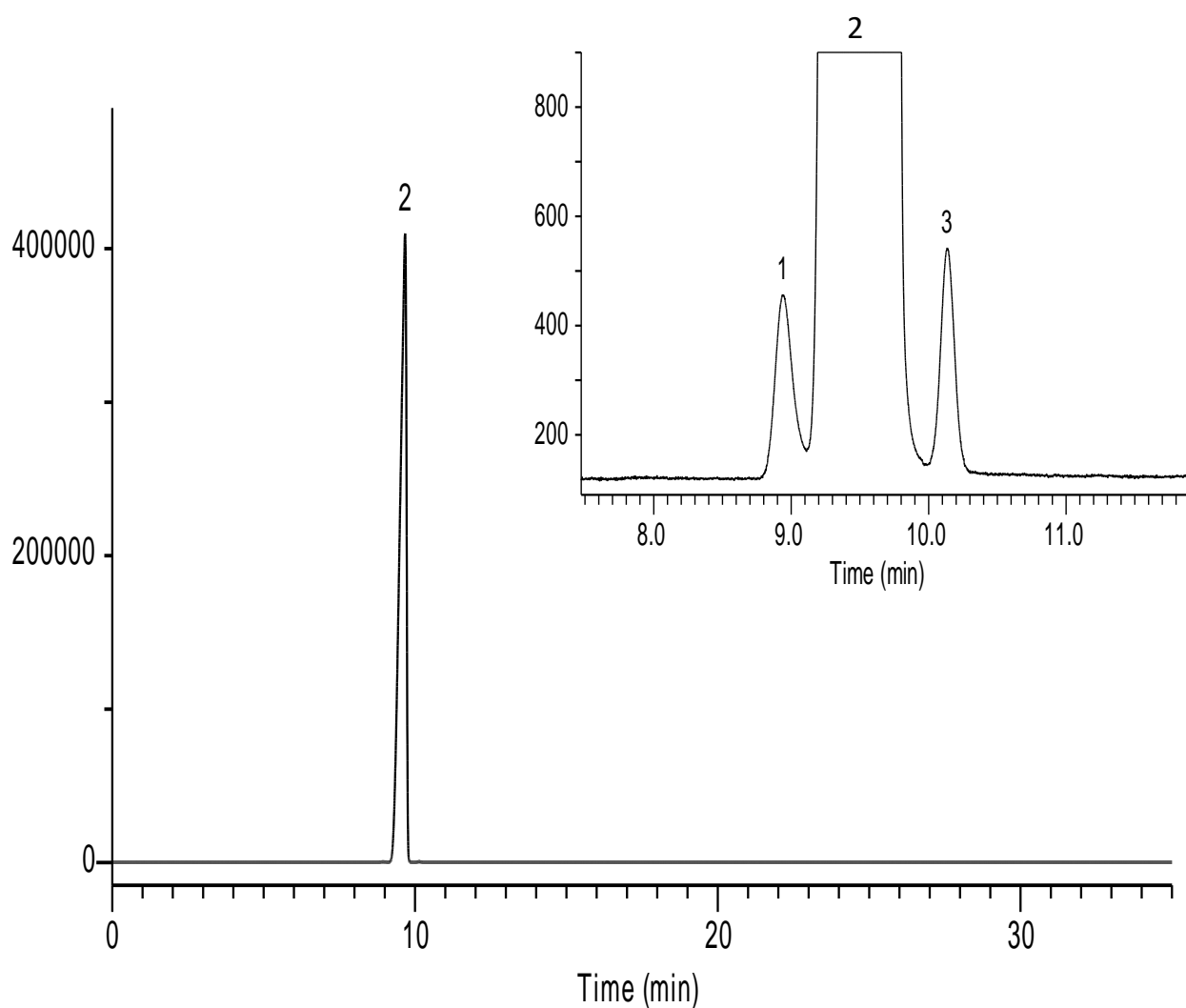
Cyclohexane is cycloalkane produced by the hydrogenation of benzene.

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 10 ³ 200 °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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GL Sciences, Inc. Japan

22-1 Nishishinjuku 6-Chome
Shinjuku-ku, Tokyo,
163-1130, Japan
Phone: +81-3-5323-6620
Fax: +81-3-5323-6621
Email: world@glsc.co.jp
Web: www.glsciences.com

GL Sciences B.V.

De Sleutel 9
5652 AS Eindhoven
The Netherlands
Phone: +31 (0)40 254 95 31
Email: info@glsciences.eu
Web: www.glsciences.eu

GL Sciences, Inc. USA

4733 Torrance Blvd. Suite 255
Torrance, CA 90503
Phone: 310-265-4424
Fax: 310-265-4425
Email: info@glsciencesinc.com
Web: www.glsciencesinc.com

GL Sciences (ShangHai) Ltd.

Tower B, Room 2003,
Far East International Plaza,
NO,317 Xianxia Road,
Changning District.
Shanghai, China P.C. 200032
Phone: +86 (0)21-6278-2272
Email: contact@glsciences.com.cn
Web: www.glsciences.com.cn

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