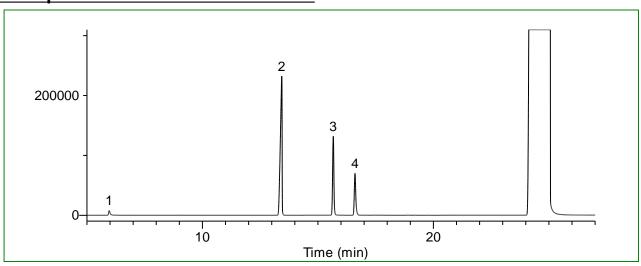
GT034 GL Sciences Inc.

Purity Test of Benzyl Alcohol with Reference to the Japanese Pharmacopoeia

Benzyl alcohol is a colourless, clear, aromatic alcohol with a bactericidal effects.

In this application note, benzaldehyde and other related substances were diluted with benzyl alcohol and analyzed with reference to the purity test described in the Japanese Pharmacopoeia. The data shown here details the successful results.

Example: Measurement of standard



Conditions

System : GC - FID

Column : InertCap Pure-WAX

0.32 mm I.D. x 30m df = 0.50 μm

Col. Temp. : 50 °C - 5 °C/min - 220 °C (35 min hold)

Carrier Gas : He 60 kPa

Injection : Splitless 1 min Vent flow 50 mL/min

200 °C

Detection : FID Range 10^0

310 °C

Sample Size : Analytes in Benzyl alcohol 0.1 μL

Analyte:

1. Ethylbenzene	0.1 mg/mL
2. Bicyclohexyl	3.0 mg/mL
3. Benzaldehyde	1.5 mg/mL
4. Cyclohexanemethanol	1.0 mg/mL

^{*}The resolution between Benzaldehyde and

Cyclohexylmethanol is 16.2.

Repeatability n = 6

	Ethylbenzene	Bicyclohexyl	Benzaldehyde	Cyclohexylmethanol
Ave.	35673	1158092	483944	301732
SD	559	13782	4901	3877
RSD (%)	1.6	1.2	1.0	1.3

GL Sciences disclaims any and all responsibility for any injury or damage which may be caused by this data directly or indirectly. We reserve the right to amend this information or data at any time and without any prior announcement.

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