



Certificate of Analysis

Reference Material MEOH-071198

Institute for
Interlaboratory Studies

Methanol

Reference Material MEOH-071198 consists of a 250 ml bottle, containing approximately 250 ml of methanol. This RM is intended primarily as a quality control material for use in the determination of ethanol, purity, water, specific gravity, initial boiling point and dry point.

Certified Property Values

The certified values are given in table 1. The certified values in table 1 have been derived from the results obtained from an international interlaboratory study in which 35 laboratories participated. The results of this interlaboratory study are presented and discussed in the I.I.S. report IIS98C05.

Table 1. Certified values^b for MEOH-071198.

<u>Parameter</u>	<u>Certified value^a</u>
Purity on dry basis, %M/M	99.97 ± 0.01
Initial boiling point ^c , °C	64.41 ± 0.05
Dry point ^c , °C	64.95 ± 0.09
Density @ 20°C, Kg/L	0.79129 ± 0.00007
Relative Density 20/20°C	0.79271 ± 0.00006
Specific Gravity, Apparent 20/20°C	0.79248 ± 0.00006
Water, %M/M	0.045 ± 0.002

- a) The estimated uncertainty is given as 95% confidence limits
b) The following values were also determined for this RM. These values are not certified, but for indication only:
Chloride, mg/kg 0.33 ± 0.07
Ethanol, mg/kg 42.6 ± 3.0
c) Distillation parameters determined only by ASTM D1078-97

NOTICE AND WARNINGS TO USERS

Shelf life: The preparation of this RM was finished November 7, 1998. When stored properly and unopened, the expire date of this RM is **March 2011**. I.I.S. regularly checks the validity of the RM's in stock. In case of any doubt about the validity of the RM you are advised to contact I.I.S.

Storage: Bottles should be stored in a dark and cool place, preferably at a temperature between 0 °C and + 10 °C.

Suggested procedure for use of the RM as quality control sample:

Before opening a bottle and taking a sample for analysis, the contents must be mixed to ensure homogeneity. Once the bottle has been opened, the material is susceptible to contamination (e.g. laboratory dust or vapours) or losses. Certified values are not applicable to bottles stored after opening, even if resealed.

Safety handling instructions: Methanol is flammable. The flash point of the material of this RM is 12 °C; therefore, care should be exercised during handling and use. Use proper methods for disposal of waste.

Spijkensse, The Netherlands
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