

Certificate of Analysis

Reference Material MEG-170299

Mono Ethylene Glycol

Reference Material MEG-170299 consists of a 250 ml bottle, containing approximately 240 ml of Mono Ethylene Glycol (MEG). This RM is intended primarily as a quality control material for use in the determination of Di Ethylene Glycol (DEG), Purity, Specific Gravity 20/20 °C and Water.

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 34 laboratories participated. The results of this interlaboratory study are presented and discussed in the I.I.S. report IIS98C07.

Table 1. Certified values^b for MEG-170299.

<u>Parameter</u>	<u>Certified value^a</u>
DEG, %M/M	0.0314 ± 0.0019
Purity, %M/M	99.944 ± 0.007
Specific Gravity 20/20 °C	1.11535 ± 0.00008
Water, %M/M	0.0274 ± 0.0013

- 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:
Acidity as Acetic acid, mg/Kg: 0.00067 ± 0.00012,
Chloride, mg/Kg: 0.298 ± 0.041

NOTICE AND WARNINGS TO USERS

Shelf life: The preparation of this RM was finished February 17, 1999. When stored properly and unopened, the expire date of this RM is **June 2007**. 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: Mono Ethylene Glycol is harmful if swallowed; therefore, care should be exercised during handling and use. Use proper methods for disposal of waste.

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