



# Certificate of Analysis

Reference Material GO-121207

Ultra Low Sulphur Biodiesel B5

Institute for  
Interlaboratory Studies

Reference Material GO-121207 consists of a 100 ml bottle, containing approximately 95 ml of ultra low sulphur automotive biodiesel B5 (containing 5% FAME). This RM is intended primarily as a quality control material for use in the determination of Mono Aromatics by IP 391, Cloud Point, Density, Sulphur 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 156 laboratories participated. The results of this interlaboratory study are presented and discussed in the iis-report IIS07G04.

**Table 1. Certified values<sup>b</sup> for GO-121207.**

<u>Parameter</u>	<u>Certified value<sup>a</sup></u>
Cloud point, °C	- 4.91 ± 0.18
Density @ 15°C, kg/m <sup>3</sup>	835.09 ± 0.03
Mono aromatics, %M/M	20.37 ± 0.30
Sulphur, mg/kg	9.96 ± 0.28
Water, mg/kg	61.6 ± 2.8

- 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:  
Di aromatics, %M/M 2.79 ± 0.17  
Tri aromatics, %M/M 0.35 ± 0.08  
Solvent Yellow, mg/L 9.16 ± 0.62

## NOTICE AND WARNINGS TO USERS

**Shelf life:** The preparation of this RM was finished December 12, 2007. When stored properly and unopened, the expire date of this RM is **May 2020**. 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:** Gasoil is inflammable. Although the flash point of the material of this RM >58 °C, care should be exercised during handling and use. Use proper methods for disposal of waste.

Spijkensse, The Netherlands  
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