

# Certificate of Analysis

Reference Material GO-121299

Low Sulphur Automotive Gasoil

Reference Material GO-121299 consists of a 100 ml bottle, containing approximately 95 ml of low sulphur automotive gasoil ('city diesel'). This RM is intended primarily as a quality control material for use in the determination of Aromatics by IP 391, Cloud Point, Density and Sulphur.

## Certified Property Values

The certified values are given in table 1. The certified values in table 1 (density excepted) have been derived from the results obtained from an international interlaboratory study in which 92 laboratories participated. The results of this interlaboratory study are presented and discussed in the I.I.S. report IIS99G01.

**Table 1. Certified values<sup>b</sup> for GO-121299.**

<u>Parameter</u>	<u>Certified value<sup>a</sup></u>
Cloud point, °C	- 19.65 ± 0.28
Density @ 15°C, kg/L	0.82613 ± 0.00004
Mono aromatics, %M/M	15.76 ± 0.22
Di aromatics, %M/M	5.55 ± 0.19
Total aromatics, %M/M	21.66 ± 0.28
Sulphur, % W/W	0.0061 ± 0.0005

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:

Tri aromatics, %M/M 0.32 ± 0.12

Lubricity, µm 580 ± 20

## NOTICE AND WARNINGS TO USERS

Shelf life: When stored properly and unopened, the expected shelf life of this RM is one year after preparation and may be extended after reanalyzing and is reapproved. The shelf life is reset to **March, 2011**.

The preparation of this RM was finished December 12, 1999.

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 > 72 °C, care should be exercised during handling and use. Use proper methods for disposal of waste.



Spijkensse, The Netherlands  
Reapproved: March, 2009 (Revision 10)

dr. R.G. Visser  
Institute for Interlaboratory Studies