

Certificate of Analysis

Reference Material DEC-121107

Institute for
Interlaboratory Studies

n-decane

Reference Material DEC-121107 consists of a 100 mL bottle, containing approximately 100 ml of pure (>96.5%) n-decane. This RM is intended primarily as a quality control material for use in the determination of Flash Point in accordance with ASTM D56, ASTM D3828 and/or IP 170.

Certified Property Values

The certified value is given in table 1. The certified value in table 1 has been derived from the results obtained from an international interlaboratory study in which 124 laboratories participated. The results of this interlaboratory study are presented and discussed in the iis report iis07J02 (see <http://www.iisnl.com>).

Table 1. Certified values^b for DEC-121107.

<u>Parameter</u>	<u>Certified value^a</u>
Flash Point IP170 / ISO13736, °C	49.6 ± 0.2
Flash Point ASTM D56, °C	50.9 ± 0.5
Flash Point D3828/IP303 & IP523/ISO3679, °C	48.9 ± 0.7

- a) The estimated uncertainty is given as 95% confidence limits, see the certification report.
b) The following value was also determined for this RM. This value is not certified, but for indication only:
Flash Point ASTM D93, °C: 54.3 ± 2.7

NOTICE AND WARNINGS TO USERS

Shelf life: The preparation of this RM was finished November 12, 2007. When stored properly and unopened, the expiring date of this RM is **September 2020**. I.I.S. regularly checks the validity of the RM's in stock. If there is any doubt about the validity of the RM you are advised to contact iis.


Storage: Bottles should be stored in a dark and cool place, preferably at a temperature between 8 °C and + 15 °C.

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

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: n-Decane is harmful if swallowed; therefore, care should be exercised during handling and use. Use proper methods for disposal of waste.

Spijkensisse, The Netherlands
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