

## ***CERTIFICATE***

### **Aqueous calibration solution**

### **ASTASOL® AN8053F**

This Certificate is designed in accordance with ISO Guide 31

**Category:** **Certified reference material**

**Analyte:** **Silicon (Si)**

**Product code:** **AN8053F**

**Starting primary compound and its purity:** **(NH<sub>4</sub>)<sub>2</sub>SiF<sub>6</sub> 99.999%**

**Matrix:**

0.05% HF (v/v), prepared from sub boil distilled HF (ANALPURE®) and ultrapure demineralized water (resistivity  $\geq 18\text{M}\Omega\cdot\text{cm}$ , 0.22 $\mu\text{m}$  filtered)

**Density and its expanded uncertainty (k = 2):**  **$0.9987 \pm 0.0005 \text{ g/cm}^3$  (at 20 °C)**

**Certified value of concentration and its expanded uncertainty (k = 2) at 20 °C**

**$100.0 \pm 0.2 \text{ mg/l}$**

**$100.1 \pm 0.3 \text{ mg/kg}^*$**

\*Mass fraction in mg/kg is derived from density

**Specification:**

**Batch No.:** 8002

**The date of production:** 30.09.2022

**Shelf life:** 5 years from the date of production

**The date of first opening of the bottle:** .....

**Expiry date:**.....12 months from the first opening of the bottle within shelf life period, which should be indicated on the label of the bottle as well.



immediately tightly capped, and it is recommended to put it back into the reclosable aluminium bag. It is not recommended to use the standard solution when the bottle contains less than 10 % of the solution. Therefore, in case of non-transparent bottle, it is important to indicate the amount of the solution used, e.g. on the label. Do not pipette from the bottle. Do not return removed aliquots to bottle.

**Note:**

Detailed information about the production, homogeneity, stability, coding, characterization and storing of this CRM are described in the document “Detailed information about the production of aqueous calibration solutions ASTASOL®” which is available for download on the website [www.analytika.net](http://www.analytika.net).

**Producer:**

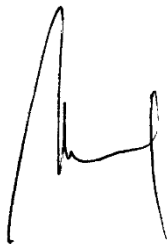
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**Quality management systems of company ANALYTIKA®, spol. s r.o.:**

ČSN EN ISO 9001:2016  
ČSN EN ISO/IEC 17025:2018  
ČSN EN ISO 17034:2017

**Manager of Department of RM:**

Ing. Daniela Weisszerová

**Head of production department:**

Mgr. Mirka Petránková

Date of the first issue of certificate: 30.09.2022

Revision of certificate:

Certificate revision date:

Version of certificate: 01