ANALYTIKA®, spol. s r.o.

Khodlova 1297/47, CZ-193 00 Praha 9 – Horní Počernice

www.analytika.net

Category:



Certified reference material

Analytika, spol. s r.o., Oddělení RM, výrobce RM č. 7501, akreditovaný ČIA podle ČSN EN ISO 17034:2017 Analytika, spol. s r.o., Department of RM, Reference Materials Producer No. 7501 accredited by CAI according to ČSN EN ISO 17034:2017

CERTIFICATE

Aqueous calibration solution

ASTASOL® ANS069

This Certificate is designed in accordance with ISO Guide 31

rapure
elf

Verze certifikátu / Version of the certificate: 01

Intended use:

methods

1/3

For calibration and validation of analytical methods analysing aqueous solutions such as atomic spectrometry (AAS, AES), molecular absorption spectrometry and selected electroanalytical

Verze formuláře / Version of the form: 03

Characterization and traceability:

This CRM is certified on the basis of gravimetric preparation. This procedure also ensures a direct traceability to SI unit – kg. Certified concentration, its uncertainty and traceability were verified by complexometric titration (with SRM NIST 928) or by instrumental analytical methods (AAS, AES, ICP-OES) with CRM AN90691N through a short unbroken chain of calibrations.

Trace impurities in bottled solution:

Max. 0.5 mg/l (total)

Homogeneity and stability:

It has been demonstrated that this CRM is homogeneous and its stability is guaranteed during the whole shelf life provided the solution it kept under conditions presented below.

Storing and instruction for use:

This CRM must be stored in the original closed bottle between 5-30 °C. The producer guarantees a declared shelf life and expiration time provided the CRM is properly stored and professionally handled. The temperature of the solution must be 20 ± 0.5 °C before every use. It is necessary to indicate the expiration time on this certificate and on the label, which depends on the date of the first time the bottle was opened. After use, the bottle must be immediately tightly capped and sealing the screw cap with parafilm is recommended. 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.

Producer:

ANALYTIKA®, spol. s r.o. Department of reference materials Ke Klíčovu 2a/816 190 00 Prague 9 – Vysočany Czech Republic

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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:

Head of production department:

Petránhova

Ing. Daniela Weisserová

Date of the first issue of certificate: 16.05.2022

Certificate revision date:

Mgr. Mirka Petránková

Revision of certificate:

Version of certificate: 01