ANALYTIKA®, spol. s r.o.

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

www.analytika.net



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® ANS079

This Certificate is designed in accordance with ISO Guide 31

Category:	Certified reference materi

Analyte: Chromium (Cr^{6+})

Product code: ANS079

Starting primary compound and its purity: K₂Cr₂O₇, 99.99%

Matrix:

Ultrapure demineralized water (resistivity $\geq 18M\Omega$.cm, 0.22µm filtered)

Assigned concentration value and expanded uncertainty (k = 2) at 20 °C

 $1000 \pm 5 \text{ mg/l}$

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Batch No.: 1011

The date of production: 02.02.2021

Shelf life: 5 years from the date of production

The date of first opening of the bottle:

life period, which should be indicated on the label of the bottle as well

Intended use:

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

Verze certifikátu / Version of the certificate: 01

1/3

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 iodometric titration or by instrumental analytical methods (AAS, AES, ICP-OES) with CRM AN90791H 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: 02.02.2021

Certificate revision date:

Mgr. Mirka Petránková

Revision of certificate:

Version of certificate: 01