R 7501

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® ANS272

This Certificate is designed in accordance with ISO Guide 31

Category:	**Certified reference material**
Analyte:	**Chlorides (Cl⁻)**
Product code:	**ANS272**
Starting primary compound and its purity:	KCl 99.997%

Matrix:

Ultrapure demineralized water (resistivity ≥ 18MΩ.cm, 0.22μm filtered)

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

10 000 ± 50 mg/l

Specification:

Batch No.: 9662

The date of production: 27.08.2020

Shelf life: 5 years from the date of production

The date of first opening of the bottle: ………………

Expiry date:…………………18 months from the first opening of the bottle within shelf 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

---

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 acidimetric titration or by instrumental analytical methods (IC) with CRM AN90691N through a short unbroken chain of calibrations.

Trace impurities in bottled solution:

Max. 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

www.analytika.net
sales@analytika.net

Phone/Fax: +420 286 589 616

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:**

Ing. Daniela Weisserová   Mgr. Mirka Petránková

Date of the first issue of certificate: 10.09.2021   Revision of certificate:

Certificate revision date: Version of certificate: 01

ISO 9001 • ISO 17025 • ISO 17034

analytika®