

Certificate of Analysis

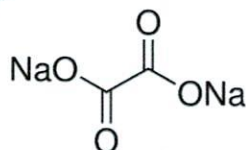
Sodium oxalate reference standard Traceable to NIST, AnStan[®].

| | |
|-------------------|---|
| Product code: | BS11849. |
| Description: | Sodium oxalate reference standard Traceable to NIST, AnStan[®]. |
| Synonym: | Sodium oxalate. |
| Pack: | 100 gm. |
| CAS No.: | 62-76-0. |
| Mol. Formula: | C₂Na₂O₄. |
| Mol. Weight: | 134 g/mol. |
| MDL Number: | MFCD00012465. |
| Melting point: | 250 °C. |
| Boiling point: | 365.1°C at 760 mmHg. |
| Density: | 2.340 g/cm³. |
| Solubility: | Soluble in water. |
| Storage: | Store at ambient temperature. |
| Batch No: | BS11849/05. |
| Manufacture Date: | 09/04/2025. |
| Expiry Date: | 08/04/2030. |

| Characteristics | Specification | Measured Values |
|---------------------------|---------------------|----------------------------|
| Appearance (Colour): | White. | White. |
| Appearance (Form): | crystalline powder. | crystalline powder. |
| Odour: | Odourless. | Odourless. |
| PH (3% aqueous solution): | 7.5 – 8.5. | 7.9. |
| Insoluble matter: | NMT.0.003%. | 0.002%. |
| LOD at 105°C: | NMT.0.05%. | 0.03%. |

Note: - This material is only for laboratory purpose and not for human consumption.

Note: Revised CoA – updated format (no change in batch data).



Certification & Traceability:

This product was manufactured, processed and/or certified under a quality management system that complies with **ISO 17034:2016** and **ISO/IEC 17025:2017**.

The balances used in the preparation of this product are calibrated regularly, using a calibration provider that complies with **ISO/IEC 17025**. All standard components used in the manufacture of this product are pre-qualified and verified before use. This product was analysed according to protocol developed by NIST and is directly traceable to **NIST SRM 8040a**.

Tests were performed for capacity, readability, repeatability and linearity. This product is manufactured, packaged, stored, and shipped in accordance with good manufacturing practices that is certified to **WHO-GMP**. The uncertainty associated with each certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of **k=2**.

The combined uncertainty u is derived from combination of the squared uncertainty contributions:

$$U = k \times \sqrt{u^2 \text{Characterisation} + u^2 \text{Homogeneity} + u^2 \text{Stability}}$$

uCharacterisation:

is the uncertainty in accordance with ISO/IEC 17025 which includes the contributions of the primary reference material and the measuring system.

uHomogeneity:

is the between-bottle variation in accordance with ISO 17034. The assessment of homogeneity is performed by analysis of a representative number of systematically chosen sample units.

uStability:

is the uncertainty obtained from short-term and long-term stability in accordance with ISO 17034. The stability studies are the basis for the quantification of the expiry date of this reference material for the unopened bottle.

Validity Period:

Briti Scientific standards ensure the accuracy of this product for 5 years from the manufacture date given above, provided the instructions for use are followed.

Quality Certifications:

This product was prepared under a quality management system that Complies with the following:

ISO 17034:2016: Reference Materials Producer, CGI Certificate No. WGMP/22N2594 – General Requirements for the Competence of Reference Material Producers.

ISO 17034 references additional requirements specified in ISO Guide 31 and ISO Guide 35.

ISO/IEC 17025:2017: Chemical Testing, CGI Certificate No. UG/23N256- General Requirements for the Competence of Testing and Calibration Laboratories.

ISO 9001:2015 Certified: Quality Management Systems, CGI Certificate No. QMS/23N258.

WHO-GMP Certified: Good Manufacturing Practices, CGI Certificate No. WGMP/22N2594.

Health and Safety Information:

Refer to the Safety Data Sheet (SDS), which can be obtained at www.britisscientific.com.

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This is a computer generated COA, no stamp or signature is required.



N. Bharathi.
Quality Control.



N.S. Mallika.
Quality Assurance.

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