



5824

ISO 17034 accredited

Certificate of Calibration

Code: COFCAL

Certificate Number: GH123456

Calibration and Issue Date: 01/08/2021

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Description:

Calcium Carbonate
stoichiometric reference material

Category & Code:

ROMIL PrimAg[®] E106

Specification:

CaCO₃ MW 100.09 CAS [471-34-1]

Application: Basimetric and complexometric certified reference material

Batch Number:

GH123456

Certificate Validity:

Expiry: Nov 2022

Calibration Result:

Assay (after drying at 300°C for 1 hour) 99.72%

Expanded Uncertainty:

±0.14%

Traceability:

Ag primary rm

Approved Signatory:

Name

Title

Signature



Generated from a master computer file which has been authorised by the signatory.



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Background Information

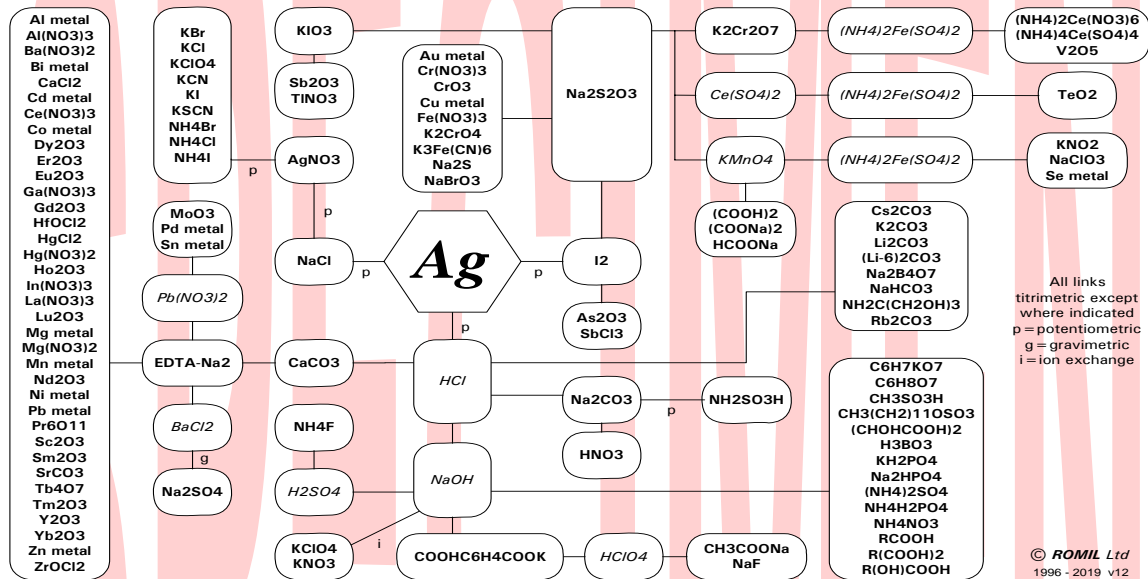
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Traceability:

This certificate is issued in accordance with the reference material producer accreditation requirements to ISO 17034 of the United Kingdom Accreditation Service (UKAS). It provides SI-traceability of measurement to the mole realised by an in-house silver or platinum primary reference material as appropriate or to other recognised national standards. UKAS is one of the signatories to the Multilateral Agreement of the European co-operation for Accreditation (EA) as well as the International Laboratory Accreditation Cooperation (ILAC) Arrangement for the mutual recognition of calibration certificates issued by accredited entities.

Traceability Scheme to Primary Silver:

Accredited by UKAS to ISO 17025 as a calibration laboratory, accreditation number 0658.



Calibration Result & Expanded Uncertainty:

Calibrations are performed in the company's laboratories. For those calibrations detailed in the traceability scheme to primary silver, the reported calibration result has been established by high precision titrimetric and/or gravimetric analysis by classical methods. Platinum calibration results have been established by high precision thermogravimetric analysis and ICP-MS. All calibrations use certified class A volumetric glassware, certified balances and certified thermometers. Balances are calibrated with weights traceable to units of measurement realised at the National Physical Laboratory, UK. Thermometers are traceable to units of temperature measurement realised at the National Physical Laboratory, UK. For other calibrations the reported calibration result has been established by traceability to CRMs provided by recognised national metrology institutes.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with ISO 17034 requirements, based on measurement, preparation and stability within the certification validity period.

Preparation & Packaging:

This reference material has been prepared in a controlled laboratory environment from high purity chemical ingredients, mixed gravimetrically or volumetrically as appropriate, then packed into suitable containers. The process has been validated for homogeneity and absence of significant packaging effects such as transpiration through in-house studies.

Storage & Handling:

Keep tightly closed in the original container with the original closure. Store at 15-25°C under normal ambient laboratory conditions unless otherwise indicated on the container label and/or product specification. To maintain homogeneity of liquids, mix thoroughly before use. Do not return dispensed material to the original container.

Other Information:

This certificate may not be reproduced other than in full, except with the prior written approval of ROMIL Ltd. PrimAg is a registered trademark of ROMIL Ltd.