



National Measurement (Australian Certified Reference Materials) Determination 2023

I, Dr Richard Bruce Warrington, Chief Metrologist, National Measurement Institute, make the following determination under the *National Measurement Regulations 1999*.

Dated 24 October 2023

Dr Richard Bruce Warrington
Chief Metrologist

Contents

1 Name.....	1
2 Commencement	1
3 Authority.....	1
4 Definitions	1
5 Determination	2

1 Name

This instrument is the *National Measurement (Australian Certified Reference Materials) Determination 2023*.

2 Commencement

This instrument commences the day after registration on the Federal Register of Legislation.

3 Authority

This instrument is made under the *National Measurement Regulations 1999*.

4 Definitions

In this instrument:

Act means the *National Measurement Act 1960*.

ISO/IEC 17025:2017 means *ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories*

Note: At the commencement of this Determination, *ISO/IEC 17025:2017* may be accessed via the website of the International Organization for Standardization:
<https://www.iso.org/store.html>

ISO 17034:2016 means *ISO 17034:2016 General requirements for the competence of reference material producers*

Note: At the commencement of this Determination, *ISO 17034:2016* may be accessed via the website of the International Organization for Standardization:
<https://www.iso.org/store.html>

ISO Guide 35:2017 means *ISO Guide 35:2017 Reference materials — Guidance for characterization and assessment of homogeneity and stability*

Note: At the commencement of this Determination, *ISO Guide 35:2017* may be accessed via the website of the International Organization for Standardization:
<https://www.iso.org/store.html>

JCGM means the Joint Committee for Guides in Metrology

Note: The JCGM is established under an international charter and composed of international organizations working in the field of metrology. The tasks of the JCGM are to maintain and promote the use of the *Guide to the expression of uncertainty in measurement* (known as the GUM) and the *International vocabulary of metrology — Basic and general concepts and associated terms* (known as the VIM).

JCGM 100:2008 means *JCGM 100:2008 Evaluation of measurement data — Guide to the expression of uncertainty in measurement (corrected version 2010)*

Note: At the commencement of this Determination, *JCGM 100:2008* may be accessed via the website of the International Bureau of Weights and Measures:
<https://www.bipm.org/en/committees/jc/jcgm/publications>

Regulations means the *National Measurement Regulations 1999*.

terms defined in the Act and the Regulations have the same meaning in this instrument.

5 Determination

The Chief Metrologist determines, under subregulation 52(1)(a) of the Regulations, that:

- (1) the accuracy of the property values of any kind of Australian certified reference material must be ascertained and expressed as an uncertainty in accordance with the principles of *JCGM 100:2008* with an interval estimated to have a level of confidence of 95% at the time of certification.
- (2) the manner and methods by which the property values of any kind of Australian certified reference material are established shall be as required by section 10 of the *Act*.
- (3) the manner and methods by which the property values of any kind of Australian certified reference material are established shall be in accordance with the principles of *ISO/IEC 17025:2017*, *ISO 17034:2016*, and *ISO Guide 35:2017*.