

Measurement Uncertainty Guides

BIPM (Bureau International des Poids et Mesures. GUM: Guide to the expression of Uncertainty in Measurement

<http://www.bipm.org/en/publications/guides/gum.html>

OIML G 1-100:2008 – Guide to the Expression of Uncertainty in Measurement

<http://www.isobudgets.com/pdf/uncertainty-guides/oiml-g-1-100-e08-edition-2008-e-evaluation-of-measurement-data-guide-to-the-expression-of-uncertainty-in-measurement.pdf>

NIST Technical Note 1297 (1994) – Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results

<https://www.nist.gov/pml/nist-technical-note-1297>

UKAS M3003 (2012) – The Expression of Uncertainty and Confidence in Measurement

https://www.ukas.com/download/publications/publications-relating-to-laboratory-accreditation/M3003_Ed3_final.pdf

NPL MGPG No. 11 (2001) – A Beginner's Guide to Uncertainty of Measurement

http://publications.npl.co.uk/npl_web/pdf/mgpg36.pdf

NPL MGPG No. 36 (2003) – Estimating Uncertainties in Testing

http://publications.npl.co.uk/npl_web/pdf/mgpg36.pdf

EA-04/02 M (1999) – Expression of the Uncertainty of Measurement in Calibration

<http://www.renar.ro/files/OEC/download/accreditation-guides/ea-4-02-m.pdf>

Eurolab Technical Report No. 1 (2006) – Guide to the Evaluation of Measurement Uncertainty for Quantitative Test Results

http://www.eurolab.org/documents/EL_11_01_06_387%20Technical%20report%20-%20Guide%20Measurement%20uncertainty.pdf

NASA Measurement Assurance Handbook – Annex 3 – HDBK-8739.19-3 (2010) – Measurement Uncertainty Analysis Principles and Methods

<http://www.hq.nasa.gov/office/codeq/doctree/NHBK873919-3.pdf>

EURACHEM / CITAC Guide CG 4 – Third Edition – QUAM:2012.P1 – Quantifying Uncertainty in Analytical Measurement

https://www.eurachem.org/images/stories/Guides/pdf/QUAM2012_P1.pdf

EURACHEM / CITAC Guide – First Edition (2007) – Measurement Uncertainty Arising From Sampling: A Guide To Methods And Approaches

https://eurachem.org/images/stories/Guides/pdf/Ufs_2007.pdf

SAC-SINGLAS Technical Guide 1 – Second Edition (2001) – Guidelines on the Evaluation and Expression of Measurement Uncertainty

<http://www.isobudgets.com/pdf/uncertainty-guides/sac-singlas-technical-guide-1-a-guidelines-on-the-evaluation-and-expression-of-measurement-uncertainty-second-edition-march-2001.pdf>

IAEA IAEA-TECDOC-1585 (2008) – Measurement Uncertainty: A Practical Guide for Secondary Standards Dosimetry Laboratories
http://www-pub.iaea.org/MTCD/publications/PDF/te_1585_web.pdf

Measurement Uncertainty Calculator Software

1. GUM Tree Calculator

<http://www.msl.irl.cri.nz/services/specialist-user-groups/measurement-software-toolkit/mst-software>

Measurement uncertainty software developed by the Measurement Standards Laboratory in New Zealand.

2. QMSys GUM Standard

<http://qmsys-gum-standard.software.informer.com/download/>

Measurement uncertainty software developed by Qualisyst Ltd. in Bulgaria.

3. Metrodata GUM Workbench Pro

http://www.metrodata.de/index_en.html

Measurement uncertainty software developed by Metrodata GmbH in Germany

4. Syke Measurement Uncertainty Kit

http://www.syke.fi/en-us/Services/Calibration_services_and_contract_laboratory/MUkit_Measurement_Uncertainty_Kit

Measurement uncertainty software developed by Syke in Finland.

5. NIST Uncertainty Machine

<https://www.nist.gov/information-technology-laboratory/sed/topic-areas/measurement-uncertainty>

Measurement uncertainty software developed by NIST in the United States

6. Keysight UnCal 3.2

<http://www.callabmag.com/measurement-uncertainty-software-from-corporate-metrology-hewlett-packard/>

Measurement uncertainty software developed by Keysight Technologies in the United States.

7. ISG Uncertainty Sidekick

http://www.isgmax.com/uncertainty_freeware.htm

Measurement uncertainty software developed by Integrated Sciences Group in the United States.

8. NPL Measurement Uncertainty Software

<http://www.npl.co.uk/science-technology/mathematics-modelling-and-simulation/mathematics-and-modelling-for-metrology/software-for-measurement-uncertainty-evaluation>

Measurement uncertainty software developed by the National Physical Laboratory in the United Kingdom.