International Standard

ISO 7097-1

Second edition
2025-07

Nuclear fuel technology — Determination of uranium in solutions, uranium hexafluoride and solids —

Part 1: Iron(II) reduction/potassium dichromate oxidation titrimetric method

Technologie du combustible nucléaire — Dosage de l'uranium dans des solutions, l'hexafluorure d'uranium et des solides —

Partie 1: Méthode titrimétrique par réduction au fer(II) et oxydation au bichromate de potassium

Reference number
ISO 7097-1:2025(en)

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Published in Switzerland

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Foreword

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This document was prepared by Technical Committee ISO/TC 85, *Nuclear energy, nuclear technologies, and radiological protection*, Subcommittee SC 5, *Nuclear installations, processes and technologies*.

This second edition cancels and replaces the first edition (ISO 7097-1:2004), which has been technically revised.

The main changes are as follows:

— aliquot size has been reduced (see Clause 4);

— information on interferences has been updated (see 5.2);

— requirements for standardisation of potassium dichromate titrant were updated (see 6.16);

— previous Annex A was divided into two annexes (Annex A and Annex B).

A list of all parts in the ISO 7097 series can be found on the ISO website.

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