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**Nuclear fuel technology —  
Determination of plutonium content  
in plutonium dioxide of nuclear grade  
quality — Gravimetric method**

*Technologie du combustible nucléaire — Détermination de la teneur  
en plutonium dans du dioxyde de plutonium de qualité nucléaire —  
Méthode gravimétrique*

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Tel. + 41 22 749 01 11  
Fax + 41 22 749 09 47  
E-mail [copyright@iso.org](mailto:copyright@iso.org)  
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## Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 85, *Nuclear energy, nuclear technologies, and radiological protection*, Subcommittee SC 5, *Nuclear fuel cycle*.

This second edition cancels and replaces the first edition (ISO 8300:1987), of which it constitutes a minor revision.

ISO 8300:2013

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## Introduction

The method specified in this International Standard is based on an oxidation of the plutonium followed by weighing. If the content of impurities is measured, a correction is made to allow for them.

Respecting certain conditions, the overall standard deviation on a single determination (gravimetric determination and impurities correction) can be below 0,1 %.

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