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**Photography — Photographic-grade  
chemicals — Test methods —**

**Part 1:  
General**

*Photographie — Produits chimiques de qualité photographique —  
Méthodes d'essai —*

*Partie 1: Généralités*

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**Contents**

	Page
1 Scope .....	1
2 Normative references .....	1
3 Term and definition .....	2
4 Safety and operational precautions .....	2
5 Requirements for reagents .....	3
6 Glassware .....	3
7 Sampling of solids and liquids .....	4
8 Masses and volumes .....	4
9 Common laboratory procedures .....	5

**Annex**

A International Standards on the specification of photographic-grade chemicals.....	7
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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this part of ISO 10349 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 10349-1 was prepared by Technical Committee ISO/TC 42, *Photography*.

This second edition cancels and replaces the first edition (ISO 10349-1:1992), which has been technically revised.

ISO 10349 consists of the following parts, under the general title *Photography — Photographic-grade chemicals — Test methods*:

- *Part 1: General*
- *Part 2: Determination of matter insoluble in water*
- *Part 3: Determination of matter insoluble in ammonium hydroxide solution*
- *Part 4: Determination of residue after ignition*
- *Part 5: Determination of heavy metals and iron content*
- *Part 6: Determination of halide content*
- *Part 7: Determination of alkalinity or acidity*
- *Part 8: Determination of volatile matter*
- *Part 9: Reaction to ammoniacal silver nitrate*
- *Part 10: Determination of sulfide content*
- *Part 11: Determination of specific gravity*
- *Part 12: Determination of density*
- *Part 13: Determination of pH*

Annex A of this part of ISO 10349 is for information only.

## Introduction

This part of ISO 10349 and subsequent parts deal with photographic-grade chemicals and their test methods which are cited in other International Standards for photographic-grade chemicals. Although the ultimate criterion for suitability of a photographic-grade chemical is its successful performance in an appropriate use test, the shorter, more economical test methods described in subsequent parts of ISO 10349, used with those tests included in the specific chemical standards, are generally adequate.

Over the past few years, great improvements have been made in instrumentation for various analyses. Where such techniques have equivalent or greater precision, they may be used in place of the tests described in the appropriate part of ISO 10349 or in the International Standards for photographic-grade chemicals. Correlation of such alternative procedures with the given method is the responsibility of the user.

Although ISO 10349 is intended for use by individuals with a knowledge of analytical techniques, this may not always be the case. Care has been taken to provide warnings for particularly hazardous materials. General hazard warnings for chemicals used in ISO 10349 and other associated International Standards are given in the text as a symbol code as a reminder in those steps detailing handling operations. More detailed information regarding hazards, handling and use of these chemicals may be available from the manufacturer.

An index of the most current version of the International Standards dealing with photographic-grade chemicals and test methods is given in annex A. This annex will be updated on a regular basis upon the issue of any revision or addition to ISO 10349 or the chemical specification standards.

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