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

**Part 13:
Determination of pH**

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

Partie 13: Détermination du pH

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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 10349-13 was prepared by Technical Committee ISO/TC 42, *Photography*.

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.

Photography — Photographic-grade chemicals — Test methods —

Part 13:

Determination of pH

1 Scope

This part of ISO 10349 specifies a general test method for the determination of pH of solutions of photographic-grade chemicals to within $\pm 0,1$ pH units.

This method is not intended to monitor the pH of formulated solutions used directly in photographic processing, e.g. developers.

2 Normative reference

The following normative document contains provisions which, through reference in this text, constitute provisions of this part of ISO 10349. For dated references, subsequent amendments to, or revisions of, this publication do not apply. However, parties to agreements based on this part of ISO 10349 are encouraged to investigate the possibility of applying the most recent edition of the normative document indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 10349-1:—¹⁾, *Photography — Photographic-grade chemicals — Test methods — Part 1: General*

3 Term and definition

For the purposes of this part of ISO 10349, the following term and definition apply.

3.1

calibration buffers

materials, purchased from various chemical supply sources, that are used to calibrate the pH meter in preparation for measuring samples

4 Hazards

General hazard warnings for the handling of chemicals are specified in ISO 10349-1.

5 Reagents

5.1 Calibration buffers

5.1.1 pH 4,0 buffer solution

Potassium hydrogen phthalate based, with an accuracy of $\pm 0,01$ pH units. Available from several vendors.

1) To be published. (Revision of ISO 10349-1:1992)