BS EN ISO 19396-1:2025

BSI Standards Publication

# Paints and varnishes — Determination of pH value

Part 1: pH sensors with glass membrane

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# National foreword

This British Standard is the UK implementation of EN ISO 19396-1:2025. It is identical to ISO 19396-1:2025. It supersedes BS EN ISO 19396-1:2020, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee STI/10, Test methods for paints.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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English Version

# Paints and varnishes - Determination of pH value - Part 1: pH sensors with glass membrane (ISO 19396-1:2025)

Peintures et vernis - Détermination de la valeur de pH - Partie 1: Sondes de pH à membrane en verre (ISO 19396-1:2025)

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## European foreword

This document (EN ISO 19396-1:2025) has been prepared by Technical Committee ISO/TC 35 "Paints and varnishes" in collaboration with Technical Committee CEN/TC 139 “Paints and varnishes” the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by January 2026, and conflicting national standards shall be withdrawn at the latest by January 2026.

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

This document supersedes EN ISO 19396-1:2020.

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## Endorsement notice

The text of ISO 19396-1:2025 has been approved by CEN as EN ISO 19396-1:2025 without any modification.

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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.

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 document 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).

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This document was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 9, *General test methods for paints and varnishes*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 139, *Paints and varnishes,* in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 19396-1:2017), which has been technically revised.

The main changes are as follows:

— definitions for “theoretical slope”, “stability of measured value”, “potentiometric measurement chain” and “reference element” have been deleted;

— the term “pH electrode” has been changed to “pH sensor” in the entire text including the title of the document;

— the calibration (7.2) has been clarified;

— the normative references have been updated.

A list of all parts in the ISO 19396 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user’s national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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# Introduction

The pH value of aqueous products is of decisive importance for the product properties and durability.

This document covers a method for laboratory measurement of the pH value of polymer dispersions and coating materials using pH sensors with a glass membrane. ISO 19396-2 specifies a method for measuring the pH value using pH sensors with ion-sensitive field-effect transistor (ISFET) technology.

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