

# ISO 19396-1:2025-06 (E)

## Paints and varnishes - Determination of pH value - Part 1: pH sensors with glass membrane

---

<b>Contents</b>		<b>Page</b>
Foreword.....		iv
Introduction.....		v
<b>1</b> Scope.....		<b>1</b>
<b>2</b> Normative references.....		<b>1</b>
<b>3</b> Terms and definitions.....		<b>1</b>
<b>4</b> Principle.....		<b>4</b>
<b>5</b> Apparatus and materials.....		<b>4</b>
5.1 pH measuring apparatus.....		4
5.2 pH meter.....		5
5.3 pH sensor.....		5
5.4 Buffer solutions.....		7
5.5 Storage solution for the pH sensors.....		7
<b>6</b> Sampling.....		<b>7</b>
<b>7</b> Procedure.....		<b>7</b>
7.1 Test conditions.....		7
7.2 Calibration.....		7
7.3 Number of determinations.....		8
7.4 Measuring the pH value.....		8
<b>8</b> Evaluation.....		<b>8</b>
<b>9</b> Precision.....		<b>8</b>
9.1 General.....		8
9.2 Repeatability limit, <i>r</i> .....		8
9.3 Reproducibility limit, <i>R</i> .....		9
<b>10</b> Test report.....		<b>9</b>
<b>Annex A</b> (informative) <b>Recommended pH sensors for different groups of coating materials, based on the results of interlaboratory tests</b> .....		<b>10</b>
<b>Annex B</b> (informative) <b>Determination of precision</b> .....		<b>12</b>
<b>Bibliography</b> .....		<b>14</b>