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Methods for determination of pH of aqueous solutions

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In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

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Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by the Society of Instrument and Control Engineers (SICE)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently **JIS Z 8802** : 1984 is replaced with this Standard.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public or utility model right which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public or utility model right which have the said technical properties.

Methods for determination of pH of aqueous solutions

1 Scope

This Japanese Industrial Standard specifies the methods for determination of pH of aqueous solutions of 0 °C to 95 °C with the pH meter using glass electrode.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS K 0050 *General rules for chemical analysis*

JIS K 0211 *Technical terms for analytical chemistry (General part)*

JIS K 0213 *Technical terms for analytical chemistry (Electrochemistry part)*

JIS K 8474 *Potassium trihydrogen dioxalate dihydrate (Reagent)*

JIS K 8514 *Sodium bromide (Reagent)*

JIS K 8622 *Sodium hydrogen carbonate (Reagent)*

JIS K 8625 *Sodium carbonate (Reagent)*

JIS K 8809 *Potassium hydrogen phthalate (Reagent)*

JIS K 8866 *Sodium tetraborate decahydrate (Reagent)*

JIS K 9007 *Potassium dihydrogen phosphate (Reagent)*

JIS K 9020 *Disodium hydrogenphosphate (Reagent)*

JIS Z 8805 *Glass electrodes for measurement of pH*

3 Terms and definitions

For the purposes of this Standard, the terms and definitions given in **JIS K 0211**, **JIS K 0213** and **JIS Z 8805**, and the following apply.

3.1 pH

the value obtained from the electromotive force measured with a glass electrode pH meter utilizing the pH value of pH standard solution specified in this Standard as reference

NOTE : It is read as PÎETTI or PÎEITI.

3.2 certified pH standard solution

the pH standard solution of which the pH value is measured according to the primary method determined by CCQM of CIPM, or the pH standard solution being traceable to it in which the expanded uncertainty to give 95 % of confidence interval is approximately within 0.015