
INTERNATIONAL STANDARD



1843 / 1

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Higher alcohols for industrial use — Methods of test — Part I : General

*Alcools supérieurs à usage industriel — Méthodes d'essai —
Partie I : Généralités*

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UDC 661.725.6 : 535.661.4 : 620.1

Ref. No. ISO 1843/1-1977 (E)

Descriptors : alcohols, chemical analysis, determination, colouring, colorimetric analysis, visual inspection.

FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

Prior to 1972, the results of the work of the technical committees were published as ISO Recommendations; these documents are in the process of being transformed into International Standards. As part of this process, Technical Committee ISO/TC 47, *Chemistry*, has reviewed ISO Recommendation R 1843-1970 and found it technically suitable for transformation. International Standard ISO 1843/1 therefore replaces ISO Recommendation R 1843-1970, to which it is technically identical.

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ISO Recommendation R 1843 had been approved by the member bodies of the following countries :

Australia	Greece	Portugal
Austria	Hungary	Romania
Belgium	India	South Africa, Rep. of
Brazil	Iran	Spain
Czechoslovakia	Italy	Switzerland
Egypt, Arab Rep. of	New Zealand	Turkey
France	Peru	United Kingdom
Germany	Poland	U.S.S.R.

The member body of the following country had expressed disapproval of the Recommendation on technical grounds :

Netherlands

The member bodies of the following countries disapproved the transformation of the Recommendation into an International Standard :

France
Netherlands

Higher alcohols for industrial use – Methods of test – Part I : General

1 SCOPE AND FIELD OF APPLICATION

This part of ISO 1843 gives general instructions relating to methods of test for C₆ to C₁₃ alcohols for industrial use.

It also specifies the methods to be used for the measurement of the colour, the determination of the density at 20 °C and the determination of the water content.

The present list of parts of ISO 1843 and other ISO publications relating to the above-mentioned products is given in the annex.

2 REFERENCES

ISO 758, *Liquid chemical products for industrial use – Determination of density at 20 °C.*

ISO 760, *Determination of water content – Karl Fischer method.*

ISO 2211, *Liquid chemical products – Measurement of colour in Hazen units (platinum-cobalt scale).*

ISO . . . , *Liquid chemical products for industrial use – Sampling.*¹⁾

3 SAMPLING

Sample in accordance with ISO . . . Additionally, place the laboratory sample in a clean, dry, glass-stoppered bottle of such a size that it is nearly filled by the sample. If it is

necessary to seal the bottle, care shall be taken to avoid the risk of contaminating the contents in any way.

NOTE – A sample of not less than 750 ml of the material is necessary to carry out the series of tests specified for these products.

4 MEASUREMENT OF COLOUR

Use the method specified in ISO 2211.

5 DETERMINATION OF DENSITY AT 20 °C

Use the method specified in ISO 758.

6 DETERMINATION OF WATER CONTENT

Use the method specified in ISO 760.

7 TEST REPORT

The test report for each determination shall include the following particulars :

- a) the reference of the method used;
- b) the results and the method of expression used;
- c) any unusual features noted during the determination;
- d) any operation not included in the relevant part of ISO 1843 or in the other International Standards to which reference is made, or regarded as optional.

1) In preparation.

ANNEX

ISO PUBLICATIONS RELATING TO HIGHER ALCOHOLS FOR INDUSTRIAL USE

ISO 1843/I – General.

ISO 1843/II – Determination of acidity to phenolphthalein – Titrimetric method.

ISO 1843/III – Determination of carbonyl compounds content – Potentiometric method.

ISO 1843/IV – Determination of bromine number – Titrimetric method in the presence of mercury(II) chloride.

ISO 1843/V – Determination of total alcohols content.

ISO 1843/VI – Determination of ash.

ISO/R 1845 – Determination of distillation yield.

ISO/R 1852 – Test for colour with sulphuric acid.

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