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### ISO

### INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

# ISO RECOMMENDATION R 1849

## HIGHER ALCOHOLS FOR INDUSTRIAL USE ITCH STANDARD PREVIEW

DETERMINATION OF WATER CONTENT

BY THE KARL FISCHER METHOD

https://standards.iteh.ai/catalog/standards/sist/ed53b8bb-6653-4bb4-8a11-332dd2efcec5/iso-r-1849-1970

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### **BRIEF HISTORY**

The ISO Recommendation R 1849, Higher alcohols for industrial use – Determination of water content by the Karl Fischer method, was drawn up by Technical Committee ISO/TC 47, Chemistry, the Secretariat of which is held by the Ente Nazionale Italiano di Unificazione (UNI).

Work on this question led to the adoption of Draft ISO Recommendation No. 1849, which was circulated to all the ISO Member Bodies for enquiry in April 1969. It was approved, subject to a few modifications of an editorial nature, by the following Member Bodies:

Australia India Romania South Africa, Rep. of Austria Iran Belgium Israel Spain Italy Netherlands Switzerland Brazil Turkey Czechoslovakia (stan Peru Zealand teh.ai) France U.A.R. Germany United Kingdom Greece Poland U.S.S.R. Hungary Portugal 49:1970

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No Member Body opposed the approval of the Draft so-r-1849-1970

This Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided to accept it as an ISO RECOMMENDATION.

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ISO Recommendation

R 1849

November 1970

### HIGHER ALCOHOLS FOR INDUSTRIAL USE

# DETERMINATION OF WATER CONTENT BY THE KARL FISCHER METHOD

### 1. SCOPE

This ISO Recommendation describes the determination of water content by the Karl Fischer method of  $C_6$  to  $C_{13}$  alcohols for industrial use.

### 2. SAMPLING

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Follow the principles given in ISO Recommendation R . . ,  $^*$ .

Place the sample in a clean, dry, glass-stoppered bottle of such a size that it is nearly filled up. If it is necessary to seal this bottle, care should be taken to avoid the risk of contamination.

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### 3. PROCEDURE

Use one of the methods described in ISO Recommendation R 760, Determination of water by the Karl Fischer method, taking a test portion of 20 ml.

### 4. TEST REPORT

The test report should give 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 this ISO Recommendation or regarded as optional.

Sampling from the consignment of a chemical product will be the subject of a future ISO Recommendation.

### ANNEX

This document forms one of a series of ISO Recommendations on methods of test for  $C_6$  to  $C_{13}$  alcohols; the complete list of Recommendations under the general title, *Higher alcohols for industrial use*, is as follows:

ISO/R 1843	Measurement of colour in Hazen units.
ISO/R 1844	Determination of density at 20 °C.
ISO/R 1845	Determination of distillation yield.
ISO/R 1846	Determination of acidity to phenolphthalein.
ISO/R 1847	Determination of carbonyl compounds (Hydroxylammonium chloride potentiometric method).
ISO/R 1848	Determination of bromine index in the presence of mercury (II) chloride.
ISO/R 1849	Determination of water content by the Karl Fischer method.  ISO/R 1849:1970
ISO/R 1850	Determination of total alcohols content (Kolumetric method) 653-4bb4-8a11- 332dd2efcec5/iso-r-1849-1970
ISO/R 1851	Determination of ash (Gravimetric method).
ISO/R 1852	Test for colour with sulphuric acid.

NOTE. - A sample of the material not less than 750 ml is necessary to carry out the whole series of tests described in these documents.

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