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# ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

# ISO RECOMMENDATION

# R 1615

## ALIPHATIC POLYHYDRIC ALCOHOLS

## GLYCERINE FOR INDUSTRIAL USE

## DETERMINATION OF ALKALINITY OR ACIDITY

## VOLUMETRIC METHOD

1st EDITION

July 1970





For each individual country the only valid standard is the national standard of that country.

Printed in Switzerland

Also issued in French and Russian. Copies to be obtained through the national standards organizations.

## BRIEF HISTORY

The ISO Recommendation R 1615, *Aliphatic polyhydric alcohols – Glycerine for industrial use – Determination of alkalinity or acidity – Volumetric 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. 1615 which was circulated to all the ISO Member Bodies for enquiry in July 1968. It was approved, subject to a few modifications of an editorial nature, by the following Member Bodies :

| | | |
|---|---|---|
| Austria | India | South Africa, Rep. of |
| Belgium | Iran | Spain |
| Brazil | Israel | Sweden |
| Colombia | Italy | Switzerland |
| Cuba | Japan | Thailand |
| Czechoslovakia | Korea, Rep. of | Turkey |
| France | Netherlands | U.A.R. |
| Germany | New Zealand | United Kingdom |
| Greece | Portugal | U.S.S.R. |
| Hungary | Romania | |

No Member Body opposed the approval of the Draft.

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

ISO Recommendation | R 1615 | July 1970

# ALIPHATIC POLYHYDRIC ALCOHOLS

# GLYCERINE FOR INDUSTRIAL USE

# DETERMINATION OF ALKALINITY OR ACIDITY

## VOLUMETRIC METHOD



## 1. SCOPE

This ISO Recommendation describes a volumetric method for determining the alkalinity or acidity of glycerine for industrial use.

## 2. PRINCIPLE

Titration with a standard solution of hydrochloric acid or sodium hydroxide, against phenolphthalein as indicator, and conventional expression of the results in milliequivalents per 100 g of product.

## 3. REAGENTS

3.1 *Water free from carbon dioxide**.

3.2 *Sodium hydroxide*, 0.1 N standard volumetric solution.

3.3 *Hydrochloric acid*, 0.1 N standard volumetric solution.

3.4 *Phenolphthalein*, 10 g/l ethanolic solution.

Dissolve 1 g of phenolphthalein in 95 % ethanol (V/V) and make up to 100 ml with the same ethanol. Add, drop by drop, approximately 0.02 N sodium hydroxide solution until the first appearance of a pink colour.

## 4. APPARATUS

Ordinary laboratory apparatus and

4.1 *Microburette* graduated in 0.01 ml.

* See ISO Recommendation R 1614, *Aliphatic polyhydric alcohols – Glycerine for industrial use – Samples and test methods – General.*