

# ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

## ISO RECOMMENDATION R 1869

METHYLENE CHLORIDE (DICHLOROMETHANE) FOR INDUSTRIAL USE

METHODS OF TEST

1st EDITION

November 1970

COPYRIGHT RESERVED

The copyright of ISO Recommendations and ISO Standards belongs to ISO Member Bodies. Reproduction of these documents, in any country, may be authorized therefore only by the national standards organization of that country, being a member of ISO.

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 1869, *Methylene chloride (dichloromethane) for industrial use — Methods of test*, 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. 1869, which was circulated to all the ISO Member Bodies for enquiry in June 1969. It was approved, subject to a few modifications of an editorial nature, by the following Member Bodies :

Austria	Iran	Spain
Belgium	Israel	Switzerland
Canada	Italy	Thailand
Czechoslovakia	Japan	Turkey
France	Netherlands	U.A.R.
Germany	New Zealand	United Kingdom
Greece	Poland	U.S.A.
Hungary	Romania	U.S.S.R.
India	South Africa, Rep. of	

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.

## METHYLENE CHLORIDE (DICHLOROMETHANE) FOR INDUSTRIAL USE

## METHODS OF TEST

## 1. SCOPE

This ISO Recommendation describes methods of test for methylene chloride (dichloromethane) for industrial use.

## 2. SAMPLING

For the preparation of the laboratory sample use the method described in ISO Recommendation R 2209, *Liquid halogenated hydrocarbons for industrial use – Sampling\**.

## 3. DETERMINATION OF DISTILLATION RANGE AND YIELD

Use the method described in ISO Recommendation R 918, *Test method for distillation (distillation yield and distillation range)*. The following details and modifications, specific to methylene chloride, should be introduced in the above-mentioned document.

## 3.1 Scope

The scope of the determination is to ascertain either the temperatures corresponding to each of two volumes of distillate, *A* and *B*, or the difference between these two volumes.

These two volumes *A* and *B* should be defined in the specification for methylene chloride agreed between the parties concerned.

## 3.2 Thermometer

Range 39 to 51 °C or other suitable range (for example, - 2 to + 47 °C).

NOTE. – Avoid exposure of the thermometer to sunlight during the test.

## 3.3 Temperature of the cooling water

This should not exceed 20 °C.

## 3.4 Distillation rate

4 to 5 ml per minute.

## 3.5 Temperature correction

The thermometer correction, which is necessary only when the scope of the determination is to ascertain the two temperatures corresponding to the volumes of distillate *A* and *B*, is equal to  $0.040 (760 - p) ^\circ\text{C}$  where *p* is the barometric pressure in millimetres of mercury. This correction should be added to the observed temperatures.

\* At present Draft ISO Recommendation.