

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION R 1902

PHENOL, *o*-CRESOL, *m*-CRESOL AND *p*-CRESOL
FOR INDUSTRIAL USE

TEST FOR IMPURITIES INSOLUBLE IN
SODIUM HYDROXIDE SOLUTION

VISUAL TEST

1st EDITION

May 1971

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 1902, *Phenol, o-cresol, m-cresol and p-cresol for industrial use – Test for impurities insoluble in sodium hydroxide solution – Visual 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. 1902, which was circulated to all the ISO Member Bodies for enquiry in November 1969. It was approved, subject to a few modifications of an editorial nature, by the following Member Bodies :

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

The following Member Body opposed the approval of the Draft :

Japan

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

PHENOL, *o*-CRESOL, *m*-CRESOL AND *p*-CRESOL
FOR INDUSTRIAL USE
TEST FOR IMPURITIES INSOLUBLE IN
SODIUM HYDROXIDE SOLUTION
VISUAL TEST

WARNING. These materials burn the skin and can be absorbed into the system through the skin. It is essential for the sampler to wear protective gloves for example of polyvinyl chloride, and also a face shield. Inhalation of the vapours from hot material is to be avoided.

Phenols are extremely hygroscopic and care should be taken to avoid contamination with atmospheric or other moisture.

1. SCOPE AND FIELD OF APPLICATION

This ISO Recommendation describes a visual test for impurities insoluble in sodium hydroxide solution and is applicable to phenol, *o*-cresol, *m*-cresol and *p*-cresol for industrial use.

This is a simple empirical test of no great precision.

2. SAMPLING

Apply the principles given in ISO Recommendation R. . .*. The following principles should also be observed :

Place the laboratory sample representative of the material taken from the bulk in a clean, dry, dark-coloured, glass-stoppered bottle of such a size that it is nearly filled by the sample. If it is necessary to seal this bottle, care should be taken to avoid contaminating the contents.

3. PRINCIPLE

Shaking with sodium hydroxide solution under specified conditions and assessment of any insoluble matter present in suspension in the mixture by comparison either with an agreed standard turbidimetric solution or with sodium hydroxide solution.

* Sampling of chemical products will form the subject of a future ISO Recommendation.