

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION MEXACHAPODHAS OPPAHU3ALUS ПО СТАНДАРТИЗАЦИИ - ORGANISATION INTERNATIONALE DE NORMALISATION

# Phthalic anhydride for industrial use - Methods of test -Part VIII : Determination of ash

je. Anhydride phtalique à usage industriel - Méthodes d'essai -Partie VIII : Détermination des cendres

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## 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 1389-1970 and found it technically suitable for transformation. The technical committee, however, divided the recommendation into eleven parts (ISO 1389, parts I to XI), which therefore replace ISO Recommendation R 1389-1970, to which they are technically identical.

ISO Recommendation R 1389 had been approved by the member bodies of the following countries :

Austria Belgium Brazil Cuba Czechoslovakia Egypt, Arab Rep. of France Germany Hungary India Iran Ireland Italy Korea, Rep. of Netherlands New Zealand Portugal Romania South Africa, Rep. of Spain Sweden Switzerland Thailand Turkey United Kingdom

No member body had expressed disapproval of the Recommendation.

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

France Netherlands

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# Phthalic anhydride for industrial use – Methods of test – Part VIII : Determination of ash

### 1 SCOPE AND FIELD OF APPLICATION

This part of ISO 1389 specifies a method for the determination of ash of phthalic anhydride for industrial use.

This document should be read in conjunction with part I (see the annex).

#### 2 PRINCIPLE

Burning of a test portion and heating at  $600 \pm 30$  °C to constant mass.

#### **3 APPARATUS**

Ordinary laboratory apparatus and

3.1 Platinum or silica dish.

**3.2 Electric furnace**, capable of being controlled at  $600 \pm 30$  °C.

#### **4 PROCEDURE**

In the dish (3.1), previously heated at  $600 \pm 30$  °C, cooled in a desiccator and weighed to the nearest 0,000 1 g, slowly burn, in several portions, approximately 50 g, weighed to the nearest 1 g, of the test sample. Heat in the furnace (3.2), controlled at  $600 \pm 30$  °C, until all carbonaceous matter has disappeared. Allow to cool in a desiccator and weigh to the nearest 0,000 1 g. Repeat the operations of heating, cooling, and weighing until the difference in mass between two successive weighings does not exceed 0,000 5 g.

Retain the residue for the determination of iron, if required, as described in part XI.

### **5 EXPRESSION OF RESULTS**

The ash, expressed as a percentage by mass, is given by the formula

# 100 m <sub>1</sub> m<sub>0</sub>

where

- $m_0$  is the mass, in grams, of the test portion;
- $m_1$  is the mass, in grams, of the residue.