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# International Standard



# 7060

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

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## Caprolactam for industrial use — Determination of crystallizing point

*Caprolactame à usage industriel — Détermination du point de cristallisation*

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Descriptors : industrial products, caprolactams, tests, determination, solidification point.

## Foreword

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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.

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International Standard ISO 7060 was developed by Technical Committee ISO/TC 47, *Chemistry*, and was circulated to the member bodies in July 1981. (standards.iteh.ai)

It has been approved by the member bodies of the following countries: 1982

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Czechoslovakia	Korea, Rep. of	Switzerland
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No member body expressed disapproval of the document.

# Caprolactam for industrial use — Determination of crystallizing point

## 1 Scope and field of application

This International Standard specifies a method for the determination of the crystallizing point of caprolactam for industrial use.

## 2 Reference

ISO 1392, *Determination of crystallizing point — General method*.

## 3 Principle

Cooling a sample of liquid caprolactam, or a liquefied sample of crystalline caprolactam, and observation of the temperature at which crystallization occurs.

## 4 Reagents

The reagents specified in ISO 1392 are not required for this determination.

## 5 Apparatus

Use the apparatus specified in ISO 1392, clause 4, omitting the Dewar vessel (4.5).

The **thermometer** (see ISO 1392, sub-clause 4.4) shall cover the range 50 to 100 °C.

The **heating bath** (see ISO 1392, sub-clause 4.7) shall contain glycerine or silicone oil.

## 6 Procedure

### 6.1 Preparation of the sample

Use the procedure specified in ISO 1392, sub-clause 5.1.

Samples of crystalline caprolactam shall be melted in the crystallizing tube at 77 to 80 °C.

### 6.2 Preparation of the apparatus

Prepare the apparatus as specified in ISO 1392, sub-clause 5.3, omitting paragraphs a) and c).

### 6.3 Determination

Use the procedure specified in ISO 1392, sub-clause 5.4, taking temperature readings at intervals of 20 s.

## 7 Expression of results

Record the crystallizing point to the nearest 0,1 °C.

## 8 Test report

The test report shall include the following information :

- a) an identification of the sample;
- b) the reference of the method used;
- c) the result and the method of expression used;
- d) any unusual features noted during the determination;
- e) any operation not included in this International Standard, or in the International Standard to which reference is made, or regarded as optional.

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