

STN	Gélová permeačná chromatografia (GPC) Časť 2: N,N-dimetylacetamid (DMAC) ako eluent (ISO 13885-2: 2020)	STN EN ISO 13885-2 67 3058
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Gel permeation chromatography (GPC) - Part 2: N,N-Dimethylacetamide (DMAC) as eluent (ISO 13885-2:2020)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 11/21

Obsahuje: EN ISO 13885-2:2021, ISO 13885-2:2020

133878

EUROPEAN STANDARD

EN ISO 13885-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2021

ICS 87.060.20

English Version

Gel permeation chromatography (GPC) - Part 2: N,N-Dimethylacetamide (DMAC) as eluent (ISO 13885-2:2020)

Chromatographie par perméation de gel (GPC) - Partie
2: Eluant au N,N-Diméthylacetamide (DMAC) (ISO
13885-2:2020)

Gelpermeationschromatographie (GPC) - Teil 2: N,N-
Dimethylacetamid (DMAC) als Elutionsmittel (ISO
13885-2:2020)

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European foreword

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INTERNATIONAL STANDARD

ISO
13885-2

First edition
2020-07

Gel permeation chromatography (GPC) —

Part 2: N,N-Dimethylacetamide (DMAC) as eluent

Chromatographie par perméation de gel (GPC) —

Partie 2: Eluant au N,N-Diméthylacetamide (DMAC)



Reference number
ISO 13885-2:2020(E)

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Published in Switzerland

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established 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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*.

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Gel permeation chromatography (GPC) —

Part 2:

N,N-Dimethylacetamide (DMAC) as eluent

WARNING — This document can involve hazardous materials, operations or equipment. It does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user to establish appropriate safety and health practices and to ensure compliance with any national regulatory conditions.

1 Scope

This document specifies the determination of the molar-mass distribution and the average molar mass values M_n (number average) and M_w (weight average) of polymers that are soluble in DMAC (N,N-Dimethylacetamide) by gel permeation chromatography (GPC).

NOTE Also known as size exclusion chromatography (SEC).

Even though the chromatograms obtained show good repeatability, it is possible that this method cannot be used with certain polymer types because of specific interactions (e.g. adsorption) within the sample/eluent/column system.

The conditions specified in this document are not applicable to the GPC analysis of polymer samples with M_w values greater than 10^6 g/mol and/or polymers with elution limits outside the calibration range (see [7.6](#) and [Annex C](#)).

This document includes no correction method (e.g. for the elimination of peak broadening). If absolute molar mass values are required, an absolute method (e.g. membrane osmometry for M_n or light scattering for M_w) can be used.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 1513, *Paints and varnishes — Examination and preparation of test samples*

ISO 4618, *Paints and varnishes — Terms and definitions*

ISO 15528, *Paints, varnishes and raw materials for paints and varnishes — Sampling*

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