

STN	Káva a výrobky z kávy Stanovenie akrylamidu Metódy využívajúce vysokoúčinnú kvapalinovú chromatografiu s tandemovou hmotnostnou spektrometriou (HPLC-MS/MS) a plynovú chromatografiu s hmotnostnou spektrometriou (GC-MS) po derivatizácii (ISO 18862: 2025)	STN EN ISO 18862 58 0116
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Coffee and coffee products - Determination of acrylamide - Methods using high-performance liquid chromatography with tandem mass spectrometric detection (HPLC-MS/MS) and gas chromatography with mass spectrometric detection (GC-MS) after derivatization (ISO 18862:2025)

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. 04/26

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EN ISO 18862

NORME EUROPÉENNE

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English Version

Coffee and coffee products - Determination of acrylamide -
Methods using high-performance liquid chromatography
with tandem mass spectrometric detection (HPLC-MS/MS)
and gas chromatography with mass spectrometric
detection (GC-MS) after derivatization (ISO 18862:2025)

Café et dérivés du café - Dosage de l'acrylamide -
Méthodes par chromatographie liquide à haute
performance avec détection par spectrométrie de
masse en tandem (CLHP-SM/SM) et chromatographie
en phase gazeuse avec détection par spectrométrie de
masse (CG-SM) après dérivation (ISO 18862:2025)

Kaffee und Kaffee-Erzeugnisse - Bestimmung von
Acrylamid - Verfahren mittels Hochleistungs-
Flüssigchromatographie mit massenspektrometrischer
Detektion (HPLC-MS/MS) und Gaschromatographie
mit massenspektrometrischer Detektion (GC-MS) nach
Derivatisierung (ISO 18862:2025)

This European Standard was approved by CEN on 17 November 2025.

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EN ISO 18862:2025 (E)

Contents	Page
European foreword.....	3

European foreword

This document (EN ISO 18862:2025) has been prepared by Technical Committee ISO/TC 34 "Food products" in collaboration with Technical Committee CEN/TC 275 "Food analysis - Horizontal methods" the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2026, and conflicting national standards shall be withdrawn at the latest by June 2026.

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Endorsement notice

The text of ISO 18862:2025 has been approved by CEN as EN ISO 18862:2025 without any modification.



International Standard

ISO 18862

Coffee and coffee products — Determination of acrylamide — Methods using high-performance liquid chromatography with tandem mass spectrometric detection (HPLC-MS/MS) and gas chromatography with mass spectrometric detection (GC-MS) after derivatization

Café et dérivés du café — Dosage de l'acrylamide — Méthodes par chromatographie liquide à haute performance avec détection par spectrométrie de masse en tandem (CLHP-SM/SM) et chromatographie en phase gazeuse avec détection par spectrométrie de masse (CG-SM) après dérivation

**Second edition
2025-11**

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ISO 18862:2025(en)**Contents**

	Page
Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	1
5 Reagents	2
6 Apparatus	3
7 Sampling	4
8 Procedure	4
8.1 General.....	4
8.2 Preparation of the sample extract.....	4
8.3 Clean-up of the extracts.....	5
8.3.1 Carrez precipitation.....	5
8.3.2 Solid-phase extraction.....	5
8.4 HPLC-MS/MS measurement.....	5
8.4.1 High-performance liquid chromatography (HPLC).....	5
8.4.2 Identification and quantification by mass spectrometry (HPLC-MS/MS).....	6
8.5 Measurement with GC-MS.....	6
8.5.1 Derivatization and sample preparation for gas chromatography.....	6
8.5.2 Gas chromatography.....	7
8.5.3 Identification and quantification by mass spectrometry.....	7
9 Calibration	7
9.1 General advice.....	7
9.2 Determination of linearity and definition of the working range.....	7
9.3 Calibration with internal standard solution.....	7
9.4 Determination of the laboratory specific recovery.....	8
10 Evaluation	8
10.1 Criteria for identification.....	8
10.2 Calculation and final results.....	8
11 Precision data	9
11.1 General.....	9
11.2 Repeatability.....	9
11.3 Reproducibility.....	9
11.4 Recovery.....	9
12 Measurement uncertainty	9
13 Test report	9
Annex A (informative) Performance characteristics	11
Annex B (informative) Examples of absorber materials	12
Annex C (informative) Examples of columns and analysis conditions	13
Annex D (informative) Examples for sample preparation and chromatographic conditions using HPLC-MS/MS	19
Bibliography	25

ISO 18862:2025(en)**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 document 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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The committee responsible for this document is ISO/TC 34, *Food products*, Subcommittee SC 15, *Coffee*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 275, *Food analysis - Horizontal methods*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 18862:2016), which has been technically revised.

The main changes are as follows:

- [Annex D](#) with examples for sample preparation and chromatographic conditions using HPLC-MS/MS has been added.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Coffee and coffee products — Determination of acrylamide — Methods using high-performance liquid chromatography with tandem mass spectrometric detection (HPLC-MS/MS) and gas chromatography with mass spectrometric detection (GC-MS) after derivatization

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1 Scope

This document specifies methods for the determination of acrylamide in coffee and coffee products by extraction with water, clean-up by solid-phase extraction (SPE) and determination by high-performance liquid chromatography with tandem mass spectrometric detection (HPLC-MS/MS) and gas chromatography with mass spectrometric detection (GC-MS) after derivatization. The methods were validated in a validation study for roasted coffee, soluble coffee, coffee substitutes and coffee products with ranges from 53 µg/kg to 612,1 µg/kg.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 3696, *Water for analytical laboratory use — Specification and test methods*

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