



SLOVENSKI STANDARD
oSIST prEN 18079:2024
01-junij-2024

Lesne plošče - Določevanje melamina z ekstrakcijo in s tekočinsko kromatografijo visoke ločljivosti (HPLC) z ultravijolično detekcijo

Wood-based panels - Determination of melamine applying extraction and high-performance chromatography (HPLC) with ultraviolet detection

Holzwerkstoffe - Bestimmung von Melamin durch Extraktion und Hochleistungschromatographie (HPLC) mit Ultraviolett-Detektion

Panneaux à base de bois - Détermination de la mélamine par extraction et chromatographie liquide à haute performance (HPLC) avec détection ultraviolet

Ta slovenski standard je istoveten z: prEN 18079

[oSIST prEN 18079:2024](https://standards.nemur.eu/catalog/standards/sist/c7180224-0000-4c33-af41-71a0702901a7/osist-prEN-18079-2024)

ICS:

79.060.01	Lesne plošče na splošno	Wood-based panels in general
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EUROPEAN STANDARD
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prEN 18079

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English Version

Wood-based panels - Determination of melamine applying extraction and high-performance chromatography (HPLC) with ultraviolet detection

Panneaux à base de bois - Détermination de la mélamine par extraction et chromatographie haute performance (HPLC) avec détection ultraviolette

Holzwerkstoffe - Bestimmung von Melamin durch Extraktion und Hochleistungschromatographie (HPLC) mit Ultraviolett-Detektion

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (prEN 18079:2024) has been prepared by Technical Committee CEN/TC 112 “Wood-based panels”, the secretariat of which is held by DIN.

This document is currently submitted to the CEN Enquiry.

This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

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Introduction

Melamine is part of adhesives (melamine-urea-formaldehyde resins, MUF) and impregnation resins (melamine-formaldehyde-resins, MF) and is therefore present in wood-based products as well as products with a decorative wear layer. Fully cured products contain mainly chemically bound melamine, which makes the presence of free melamine unlikely.

Melamine (2,4,6-Triamino-1,3,5-triazine) is a heterocyclic, aromatic substance (CAS 108-78-1), see Figure 1. It is a white solid at room temperature with a melting point of 280 °C. It decomposes above this temperature. Melamine is poorly soluble in cold water. In hot water, melamine has a significantly higher solubility. Dimethyl sulfoxide (DMSO) is an inert solvent and capable for melamine quantification.

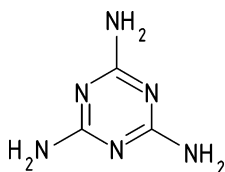


Figure 1 — Melamine structure (CAS: 108-78-1), molar mass 126,12 g/mol

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