

STN	Spojivá náterových látok. Stanovenie hydroxylového čísla. Časť 2: Titračná metóda s použitím katalyzátora (ISO 4629-2: 2016).	STN EN ISO 4629-2 67 3041
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Binders for paints and varnishes - Determination of hydroxyl value - Part 2: Titrimetric method using a catalyst (ISO 4629-2:2016)

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. 11/16

Obsahuje: EN ISO 4629-2:2016, ISO 4629-2:2016

123821

Úrad pre normalizáciu, metrológiu a skúšobníctvo SR, 2016
Podľa zákona č. 264/1999 Z. z. v znení neskorších predpisov sa môžu slovenské technické normy rozmnožovať a rozširovať iba so súhlasom Úradu pre normalizáciu, metrológiu a skúšobníctvo SR.

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 4629-2

June 2016

ICS 87.060.20

English Version

**Binders for paints and varnishes - Determination of
hydroxyl value - Part 2: Titrimetric method using a catalyst
(ISO 4629-2:2016)**

Liants pour peintures et vernis - Détermination de
l'indice d'hydroxyle - Partie 2: Méthode titrimétrique
utilisant un catalyseur (ISO 4629-2:2016)

Bindemittel für Beschichtungsstoffe - Bestimmung der
Hydroxylzahl - Teil 2: Verfahren mit Katalysator (ISO
4629-2:2016)

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European foreword

This document (EN ISO 4629-2:2016) has been prepared by Technical Committee ISO/TC 35 “Paints and varnishes” in collaboration with Technical Committee CEN/TC 139 “Paints and varnishes” 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of an identical text or by endorsement, at the latest by December 2016, and conflicting national standards shall be withdrawn at the latest by December 2016.

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Endorsement notice

The text of ISO 4629-2:2016 has been approved by CEN as EN ISO 4629-2:2016 without any modification.

**Binders for paints and varnishes —
Determination of hydroxyl value —**

**Part 2:
Titrimetric method using a catalyst**

*Liants pour peintures et vernis — Détermination de l'indice
d'hydroxyle —*

Partie 2: Méthode titrimétrique utilisant un catalyseur





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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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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 35, *Paints and varnishes*, Subcommittee SC 10, *Test methods for binders for paints and varnishes*.

ISO 4629 consists of the following parts, under the general title *Binders for paints and varnishes — Determination of hydroxyl value*:

- *Part 1: Titrimetric method without using a catalyst*
- *Part 2: Titrimetric method using a catalyst*

Introduction

There are several different methods standardized for determining the hydroxyl value of resins. The classic method using pyridine without a catalyst is specified in ISO 4629-1. The advantages of the method using a catalyst are the following:

- the solvents used are less hazardous to health;
- the solvent consumption is lower;
- the method is faster due to shorter reaction times;
- the end point of the titration is easier to see;
- polyols are more readily soluble.

Binders for paints and varnishes — Determination of hydroxyl value —

Part 2: Titrimetric method using a catalyst

1 Scope

This part of ISO 4629 specifies a titrimetric method for determining the hydroxyl value of resins, binders for paints and varnishes, primary alcohols, glycols and fats. Whether it can be applied for hydro carboxylic acids, phenolic hydroxyl groups, polyols such as trimethyl propane and substances containing aromatic groups have been activated for Friedel-Crafts acylation shall be decided on case-to-case basis.

Under the right conditions, the method is also applicable for determining the hydroxyl value of castor oil and its derivatives.

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 660, *Animal and vegetable fats and oils — Determination of acid value and acidity*

ISO 2114:2000, *Plastics (polyester resins) and paints and varnishes (binders) — Determination of partial acid value and total acid value*

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

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

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

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