

~~ISO-PRF 14900:2023(E)~~

~~ISO-TC-61/SC-12/AVC-6~~

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Plastics — Polyols for use in the production of polyurethanes — Determination of hydroxyl number

Plastiques — Polyols pour la production de polyuréthane — Détermination de l'indice d'hydroxyle

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Foreword

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This document was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 12, *Thermosetting materials*.

This third edition cancels and replaces the second edition (ISO 14900:2017), which has been technically revised.

The main changes are as follows:

- the title has been changed to plural form to read: "Plastics — Polyols for use in the production of polyurethanes — Determination of hydroxyl number";
- in 7.1.3, 7.1.3, hotplate has been added as heating device;
- in 8.1.3, 8.1.3, an oil bath has been added, in addition to a hot plate, as a heating device;
- in 9.3.1, 9.3.1 and 9.3.1, 9.3.1, precision and bias information have been updated;
- in 9.1.3, in 9.1.3, the information on hydrolysis of excess phthalic anhydride, and the water addition process have 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.

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Introduction

International Standards ~~have been published~~ which deal with the determination of hydroxyl values of unsaturated-polyester resins (ISO 2554), non-ionic surface active agents (ISO 4326, ISO 4327), binders for paints and varnishes [ISO 4629 (all parts)] and industrial polyglycols (ISO 6796) ~~have been published~~. The two methods in this document are improved versions of imidazole-catalyzed procedures specifically tailored to the determination of the hydroxyl number of many types of polyol, including those used in the production of polyurethanes. Method A is especially suited to the determination of the hydroxyl number of polyether polyols that may have steric hindrance, or are otherwise difficult to determine by phthalation. Method B is a general method based on phthalation and is applicable to a wide range of polyol types. Both of these methods are similar to procedures found in ASTM D4274.

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