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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

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**Photography - Processing waste - Determination of ammoniacal
nitrogen(microdiffusion method)**

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules for Standardization Documents" drafting.

This document is equivalent to ISO 6853.2001 "Determination of Ammonia Nitrogen Content in Wastewater from Photography Processing (Micro-diffusion Method)".

A chapter "Terms and Definitions" has been added to this document.

The following minimal editorial changes have been made to this document.

--- Added informative appendix NA.

Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying patents.

Introduction

This document is one of a series of standards for the analysis of photographic waste, which includes the field of analysis of ammonia nitrogen content in photographic waste water.

This document is intended for individuals with a working knowledge of analytical techniques. Some steps use corrosive, toxic or other hazardous chemicals. place

Laboratory safety protocols for physical chemicals require the use of safety glasses or goggles and, in some cases, other protective clothing,

Such as rubber gloves, masks or aprons. The safe performance of any chemical procedure always requires that normal precautions have been taken for hazardous materials

Specific details are provided. Hazard warnings are designated by letters enclosed in angle brackets "< >". These are defined in Chapter 6 and then in this document

use. More detailed information on the hazards, handling and use of these chemicals is available from the manufacturer.

Only through chemical analysis can the photography lab determine compliance with emissions regulations. If the photography lab does not comply with emissions regulations

If required, an external laboratory should be used.

Determination of Ammonia Nitrogen Content in Photography Processing Waste Liquid
(micro-diffusion method)

1 Scope

This document describes a method for the determination of ammonia and other volatile amines liberated from photographic processing effluents using strong bases, with results expressed in terms of nitrogen

express.

This method is applicable to the determination of ammonia mass concentration range of 10mg/L~200mg/L or nitrogen mass concentration range of 8mg/L~

Ammonia concentration in typical photographic processing effluent of 160 mg/L. Other volatile amines are also commonly defaulted to ammonia, but the presence of ammonia in photographic processing waste

Concentrations are usually very low.

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text. Among them, dated references

For documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to

this document.

ISO 5667-1 Water quality sampling Part 1.Guidelines for the design of sampling schemes
(Waterquality-Sampling-Part 1.

Note. GB/T 12997-1991 Water Quality Sampling Scheme Design Technical Regulations
(ISO 5667-1.1980, IDT)

ISO 5667-2 Water quality sampling Part 2.Guidance on sampling techniques
(Waterquality-Sampling-Part 2.Guidance

Note. GB/T 12998-1991 Water Quality Sampling Technical Guidance (ISO 5667-2.1982,
NEQ)

ISO 5667-3 Water quality sampling Part 3.Sample storage and handling guidelines
(Waterquality-Sampling-Part 3.

Note. GB/T 12999-1991 Technical regulations for storage and management of water quality
sampling samples (ISO 5667-3.1985, NEQ)

General test methods)

Note. For Chinese documents that have a consistent correspondence with ISO 6353-1, see
Appendix NA.

Specifications-Firstseries)

Note. For Chinese documents that have a consistent correspondence with ISO 6353-2, see
Appendix NA.

Specifications-Secondseries)

Note. For Chinese documents that have a consistent correspondence with ISO 6353-3, see
Appendix NA.

ISO 10349-1 Methods of testing photographic grade chemicals Part 1.General
(Photography-Photographic-

Note. GB/T 20432.1-2006 Test Methods for Photographic Grade Chemicals Part 1.General
Rules (ISO 10349-1.2002, IDT)

3 Terms and Definitions

This document does not have terms and definitions that need to be defined.