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

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**Leather and fur - Chemical tests - Determination of ethylene
glycol ethers content**

皮革和毛皮 化学试验 乙二醇醚类物质含量的测定

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Table of Contents

- Foreword
- 1 Scope
- 2 Normative references
- 3 Terms and definitions
- 4 Principle
- 5 Reagents and Materials

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.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document was proposed by China Light Industry Federation.

This document is under the jurisdiction of the National Technical Committee for Standardization of Leather Industry (SAC/TC252).

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Chemical testing of leather and fur Determination of glycol ether content

1 Scope

This document describes the determination of ethylene glycol dimethyl ether, ethylene glycol diethyl ether, ethylene glycol monomethyl ether, ethylene glycol monoethyl ether, diethylene glycol monomethyl ether, Test method for the content of 6 glycol ethers including glycol dimethyl ether and triethylene glycol dimethyl ether.

This document is applicable to the determination of the content of 6 glycol ethers in various

types of leather, fur and their products.

2 Normative references

GB/T 39364

3 Terms and definitions

There are no terms or definitions that require definition in this document.

4 Principle

The shredded leather or fur samples are extracted with ultrasonic-assisted methanol, and the extract is filtered through a filter membrane or purified by a solid phase extraction column.

Then, the product was determined by gas chromatography-mass spectrometry (GC-MS) and quantified by external standard method.

5 Reagents and Materials

5.1 General provisions. Unless otherwise specified, all reagents used are of analytical grade.

5.2 Methanol, chromatographic grade.

5.3 Anhydrous magnesium sulfate (MgSO_4).

5.4 Six kinds of glycol ether standard substances. For detailed substance information, see Appendix A.

5.5 Standard stock solutions of glycol ethers, with a mass concentration of 1000 mg/L, are prepared using methanol (5.2).

5.6 Glycol ether standard working solution. Accurately pipette an appropriate amount of glycol ether standard stock solution (5.5) and add methanol (5.2).

Dilute to an appropriate mass concentration (such as 0.5 mg/L~50 mg/L) for instrument analysis.