

ICS 71.100.40

CCS Y43



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

GB/T 22730-2008

**Determination of chloroform in toothpaste - Gas
chromatography**

牙膏中三氯甲烷的测定 气相色谱法

Issued on: December 31, 2008

Implemented on: August 1, 2009

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China;
Standardization Administration of China**

Table of Contents

- 1 Scope
- 2 Normative references
- 4 Reagents and materials
- 5 Instruments

Foreword

The Standard Appendix A, Appendix B are informative appendices. This standard is proposed and managed by the National Certification and Accreditation Administration Committee. This standard was drafted. Chinese Academy of Inspection and Quarantine. The main drafters of this standard. Wang Chao, Wang Xing, Mikoto season, Hao Nan. Determination of chloroform in toothpaste Gas chromatography

1 Scope

GB/T 22730-2008 is the Chinese national standard on determination of chloroform in toothpaste - gas chromatography, in the field of chemical technology. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 31 December 2008 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 August 2009. Classification: ICS 71.100.40, CCS Y43. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the method for the determination of chloroform in toothpaste. This standard applies to the determination of chloroform in toothpaste. Determination of the lower limit of the method chloroform. 0.50mg/kg.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 6379.2 measurement methods and results of Accuracy (trueness and precision) - Part 2. Determine the standard measurement method to repeat Of the basic methods of reproduction (GB/T 6379.2-2004,

ISO 5725-2.1994, IDT) Principle

3 Methanol as solvent, ultrasonic extraction, centrifugation, the solution is injected into the headspace sampler is equipped with an electron capture detector (ECD) of the gas chromatograph Detection, external standard. If necessary, gas chromatography - mass spectra.

4 Reagents and materials

Unless otherwise specified, reagents were of analytical grade.

4.1 Methanol. chromatographically pure.

4.2 chloroform. chromatography.

4.3 chloroform standard stock solution. Weigh accurately 0.1g (accurate to 0.0001g) in chloroform 100mL volumetric flask with methanol To volume, that is, too chloroform at a concentration of standard stock solution 1mg/mL of. Stock solution stored at 4 °C refrigerator, you can use two months.

4.4 standard solution chloroform. methanol above stock solution (4.3) respectively dubbed chloroform at a concentration of 0.01 μ g/mL, 0.05 μ g/mL, 0.1 μ g/mL, 0.5 μ g/mL, standard solution 1 μ g/mL, and stored at 4 °C, can be used for one week.

5 Instruments

5.1 Gas chromatograph. equipped with electron capture detector (ECD).

5.2 Gas chromatograph. with a mass selective detector (MSD).

5.3 Analysis of balance. a sense of the amount of 0.0001g.

5.4 ultrasonic cleaning.

5.5 air injector.

5.6 bottles. 20mL.