



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

GB 29202-2012

Food Additives -- Nitrogen [including 2016 Modification 1]

食品添加剂 氮气

(English Translation)

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1 Application Scope

This Standard applies to food additive nitrogen produced by deep cooling air separation, pressure swing absorption, membrane separation and small special nitrogen making machine.

2.1 Molecular formula

N₂

2.2 Relative molecular mass

28.01 (in accordance with International Relative Atomic Masses 2007)

3.1 Sensory requirements

As specified in Table 1.

Annex A

Test Method

A.1 Warning

A high-pressure gas cylinder is used in the test method of this Standard, so appropriate safety and protection measures shall be taken.

A.2 Identification test

Insert a small wood stick ignited carefully into a test tube filled with test gas; the flame extinguishes.

A.4.2.1 Method summary

Use the zirconia solid battery as the detector of gas chromatography. The component oxygen to be tested in the sample enters into the detector after separation by the chromatographic column and generates corresponding chromatographic peak signals.

And then use the external standard method for quantitative determination.

A.4.2.2 Apparatus

Gas chromatograph. as specified in HG/T 2686.

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