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NATIONAL STANDARD OF THE
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GB 7300.601-2020

Feed additives - Part 6: Non-protein nitrogen - Urea

饲料添加剂 第 6 部分:非蛋白氮 尿素

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Feed additives - Part 6: Non-protein nitrogen - Urea

1 Scope

This part of GB 7300 specifies the requirements, test methods, inspection rules, labeling, packaging, transportation, and storage for the feed additive urea.

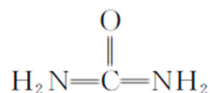
This part applies to urea produced by the reaction of ammonia and carbon dioxide and used as a non-protein nitrogen feed additive.

Chemical name: Carbamide

Molecular formula: $\text{CO}(\text{NH}_2)_2$

Relative molecular mass: 60.056 (calculated according to the 2016 International Standard Relative Atomic Mass)

Structural formula:



2 Normative references

The following documents are essential to the application of this document. For the dated referenced documents, only the versions with the indicated dates are applicable to this document; for the undated referenced documents, only the latest version (including all the amendments) is applicable to this document.

GB/T 2441.1 Determination of urea - Part 1: Total nitrogen content

GB/T 2441.2 Determination of urea - Part 2: Biuret content - Spectrophotometric method

GB/T 2441.3 Determination of urea - Part 3: Water content - Karl Fischer method

GB/T 2441.5 Determination of urea - Part 5: Alkalinity - Titrimetric method

GB/T 2441.7 Determination of urea - Part 7: Particle size - Sieve method

GB/T 2441.9 Determination of urea - Part 9: Methylenediurea content - Spectrophotometric method

4.3 Sensory characteristics

It is white or light-colored particles by visual inspection under natural light.

4.4 Determination of total nitrogen content

It shall be carried out according to the provisions of GB/T 2441.1.

4.5 Determination of biuret content

It shall be carried out according to the provisions of GB/T 2441.2.

4.6 Determination of moisture content

It shall be carried out according to the provisions of GB/T 2441.3.

4.7 Determination of methylenediurea

It shall be carried out according to the provisions of GB/T 2441.9.

4.8 Determination of lead content

It shall be carried out according to the provisions of GB/T 13080.

4.9 Determination of alkalinity

It shall be carried out according to the provisions of GB/T 2441.5.

4.10 Determination of particle size

It shall be carried out according to the provisions of GB/T 2441.7.

5 Inspection rules

5.1 The index items listed in the requirements of this part are all factory inspection items, the products shall be inspected batch by batch, and the quality certificate shall be attached.

5.2 Products that are produced and packaged with the same batch of raw materials in the same shift, and have the same process conditions, the same batch number and specifications, and the same quality certificates, are considered as one batch.

5.3 The number of sampling units shall be in accordance with the provisions of GB/T 14699.1. When sampling, insert the sampler into three-quarters of the depth of the material layer, mix the obtained sample evenly, divide about 500 g sample by quartering method, and place the sample into two dry, clean bottles with ground stoppers; paste a label on each bottle to indicate the name of the manufacturer, product name, production

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