



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

GB 30603-2014

**National Food Safety Standard -- Food Additives -- Sodium
Acetate**

(English Translation)

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1 Scope

This Standard is applicable to food additive sodium acetate made from acetic acid and sodium hydroxide (or sodium carbonate).

2 Molecular Formula, Structural Formula and Relative

Molecular Mass

2.1 Molecular formula

$C_2H_3NaO_2 \cdot nH_2O$ ($n=3$ or 0).

2.2 Structural formula

$CH_3COONa \cdot nH_2O$ ($n=3$ or 0).

2.3 Relative molecular mass

136.08 (crystal product).

82.03 (anhydrous product).

3.1 Sensory requirements

The sensory requirements shall conform to the provisions of Table 1.

Appendix A

Test Methods

A.1 General provisions

Unless otherwise stated, only the reagents identified as analytically pure and the tertiary water specified in GB/T 6682 shall be used in the analysis.

The standard titration solution used in the test method, the standard solution for the

determination of impurities, preparations and products, unless otherwise specified, shall be prepared in accordance with the provisions of GB/T 601, GB/T 602 and GB/T

603. When the used solution does not indicate by which solvent to prepare, it refers to the aqueous solution.

A.2.1 Reagents and materials

A.2.1.1 Sulfuric acid.

A.2.1.2 Ethanol.

A.2.1.3 Hydrochloric acid solution: 1+1.

A.2.1.4 Uranium zinc oxyacetate solution: take 10g of uranyl acetate; add 5mL of

glacial acetic acid and 50mL of water; and dissolve with slight heat. Take 30g of zinc acetate; add 3mL of glacial acetic acid and 30mL of water; and dissolve with slight heat.

Mix the two solutions; let cool; filter; and then obtain it.

A.2.1.5 Ferric chloride solution: 90g/L.

A.2.2 pH test

Take 1g of sample, accurate to 0.01g; dissolve with appropriate amount of water and dilute to 100mL; the pH of the measured solution shall be 8.0~9.5.

A.2.3 Sodium salt test

After moistening the platinum wire by hydrochloric acid solution; dip the sample and burn it in a colorless flame. The flame shall be bright yellow.

Take 1g of sample, accurate to 0.01g; dissolve by appropriate amount of water; add 1mL of hydrochloric acid solution; dilute to 20mL by water. Take 1mL of this solution; add 5mL of uranium zinc acetate solution; shake; then generate a yellow precipitate.

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