

COMPANY NAME: SHANGHAI WENTONG CHEMICALS CO., LTD.

ADDRESS: NO. 985, DONGFANG ROAD, PUDONG, SHANGHAI, CHINA

TEL: 86-21-68766789 FAX: 86-21-68765485 EMAIL: wentong@wentong.com

ANALYSIS METHOD OF POTASSIUM NITRATE

1、 Measurement of Potassium Nitrate

In neutral media, potassium ion reacts with NaBPh_4 to produce precipitate of KBPh_4 . If there is some ammonium ion to be interference, this affection can be eliminated by adding formaldehyde solution. Then we can accordance with the weight of precipitate to calculate amount of potassium nitrate.

2、 Measurement of moisture

With defined temperature, dry product to invariable weight. Measure the losing weight to define moisture.

3、 Measurement of chloride

In weak acid solution of product, added excessive silver nitrate standard solution to produce precipitate of silver chloride. Using ammonium ferric sulfate as indicator, titrated remains silver nitrate with potassium sulfocyanate standard solution, and calculated.

4、 Measurement insoluble matter in water

Solubilize definite product in water, after filtration, dry the residue to invariable weight, quantify amount of insoluble matter.

5、 Measurement of sulphates

In acid solution, sulphate ion with barium ion induced insoluble precipitate, when sulphate is in low quantity, barium sulphate is in suspension, and make solution feculent, then we can quantify amount of sulphate in visual turbidimetry method.

6、 Measurement of moisture absorption

Put product after measurement of moisture into desiccator with saturated potassium nitrate solution, after 6 hours, weight.

7、 Measurement of ferric

Referring to GB/T 3049-1986 Chapter. 2.

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