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Plasticizers – Determination of colour

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Plasticizers – Determination of colour

This Standard equivalently adopts the international standard ISO 2211:1973 “Liquid chemical products – Measurement of colour in Hazen units (platinum-cobalt scale)”.

1 Subject contents and applicable scope

This Standard specifies the colour determination method of plasticizers.

This Standard applies to the plasticizers, including phthalate esters, sebacic acid esters, adipic acid esters, triphenyl phosphate, tricresyl phosphate, chlorinated paraffin-52, and other transparent liquid.

2 Principle

USE visual method to compare the sample colour with the standard colour. EXPRESS the results in unit of “platinum-cobalt colour”.

3 Definition

Unit of platinum-cobalt colour: The solution colour refers to the colour shown when there are 1mg of platinum in the form of chloroplatinic acid and 2mg of cobalt chloride hexahydrate in per liter of solution.

4 Reagents

4.1 Cobalt chloride (GB/T 1270): $\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$, analytical reagent;

4.2 Potassium chloroplatinate: Analytical reagent;

4.3 Hydrochloric acid (GB/T 622): Analytical reagent;

4.4 Distilled water: Redistilled water.

5 Instruments

5.1 Colorimetric tube: 100mL and 50mL colorless colorimetric tubes with ground-glass stoppers.

Additional information:

This Standard was proposed by the Ministry of Chemical Industry of the People's Republic of China.

This Standard shall be under the jurisdiction of the Shanxi Chemical Research Institute.

The responsible drafting organization of this Standard is Shanxi Chemical Research Institute.

The main drafter of this Standard is Zou Zhiwen.

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