



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

GB 1903.76-2025

**National food safety standard - Food nutrition fortifier - Heme
iron**

食品安全国家标准 食品营养强化剂 血红素铁

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Foreword

2 Chemical name, molecular formula, structural formula, and relative molecular mass 2.1
Chemical name

1 Scope

This standard applies to heme iron, a food nutrition fortifier, prepared from animal blood that has passed inspection and quarantine or from blood cells obtained through centrifugation, through enzymatic hydrolysis, separation, and drying.

2 Chemical name, molecular formula, structural formula, and

relative molecular mass

2.4 Relative molecular mass

616.499 (based on the international relative atomic mass in 2022).

3.1 Sensory requirements

Sensory requirements shall comply with the provisions of Table 1.

A.1 General provisions

Unless otherwise specified, the reagents and water used in the test methods of this standard refer to analytical grade reagents and Grade III water as specified in GB/T 6682. In the test, the solutions used, unless the solvent used for preparation is specified, all refer to aqueous solutions.

A.2 Identification test

A.2.1 Reagents and materials

A.2.1.1 Sodium hydroxide.

A.2.1.3 Sodium hyposulfite.

A.2.1.4 Nitric acid. chromatographically pure.

A.2.1.5 Ammonia water.

A.2.1.6 1 mol/L sodium hydroxide solution. Weigh 40.0 g of sodium hydroxide, dissolve it in carbon dioxide-free water, and bring the volume to 1 L.

A.2.1.7 Pyridine sodium hydroxide solution. Take 100 mL of pyridine, add 30 mL of 1 mol/L sodium hydroxide solution, and dilute with water to 300 mL.

A.2.2 Instruments and equipment

A.2.2.1 Analytical balance. The sensitivity is 0.0001 g.