



GB 1903.37-2018

National Food Safety Standard Food Nutritional Fortification Substance Ferric Citrate

食品安全国家标准 食品营养强化剂 柠檬酸铁

National Health Commission of the People's
Republic of China
State Administration for Market Regulation

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National Food Safety Standard

Food Nutritional Fortification Substance Ferric Citrate

1 Scope

This standard applies to the food nutritional fortification substance ferric citrate prepared with citric acid, ferrous sulfate, hydrogen peroxide or citric acid, ferric hydroxide as the main raw materials through the processes of chemical synthesis and refining.

2 Chemical Name, Molecular Formula, and Relative Molecular Mass

2.1 Chemical name

2-Hydroxyl-1,2,3-propanetricarboxylic acid, ferric salt

2.2 Molecular formula

$C_6H_5O_7Fe \cdot nH_2O$ ($n=0\sim5$)

2.3 Relative molecular mass

244.94 (anhydrous) (according to international relative atomic mass in 2016)

3 Technical Requirements

3.1 Sensory requirements

The sensory requirements shall comply with the provisions of Table 1.

Table 1 Sensory requirements

Items	Requirements	Test methods
Color	Red brown or brown	Take an appropriate amount of the test sample and place it into a white clean, dry vessel, observe its color and state under natural light, and smell its odor.
State	Thin crystal or crystalline powder	
Odor	Odorless, no foreign odor	



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