



GB 1886.366-2023

National Food Safety Standard

Food Additive β -Carotene

食品安全国家标准 食品添加剂 β -胡萝卜素

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

Release Date: Sept. 6, 2023
Implementation Date: Mar. 6, 2024

Translated by ChemLinked

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National Standard of the People's Republic of China

GB 1886.366-2023
In Replacement of GB 8821-2011

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食品安全国家标准

食品添加剂 β -胡萝卜素

Date of publication: 2023-09-06

Date of implementation: 2024-03-06

Issued by:

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

Foreword

This standard replaces GB 8821-2011 “National Food Safety Standard Food Additive β -Carotene”.

Compared with GB 8821-2011, the main changes of this standard are as follows:

- Changed the starting materials in the scope;
- Changed the color requirements in the sensory requirements;
- Removed the contents under the identification test to the physicochemical indicators;
- Deleted the smell item requirements in the sensory requirements;
- Deleted three indicators of clarity test, melting point and heavy metal (as Pb) from the physicochemical indicators;
- Added the lead (Pb) indicator;
- Added the description of commercialized products.

National Food Safety Standard

Food Additive β -Carotene

1. Scope

This standard applies to food additive β -carotene produced by chemical synthesis using retinyl acetate or β -ionone as the starting material.

2. Chemical Name, Molecular Formula, Structural Formula and Relative Molecular Mass

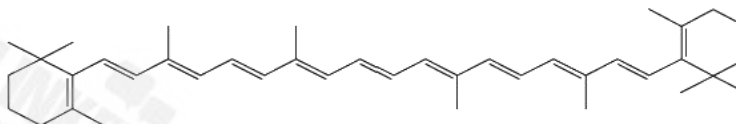
2.1 Chemical name

All-trans-1,1'-(3,7,12,16-tetramethyl-1,3,5,7,9,11,13,15,17-octadecadecenoene-1,18-diyl)bis[2,6,6-trimethylcyclohexene]

2.2 Molecular formula

C₄₀H₅₆

2.3 Structural formula



2.4 Relative molecular mass

536.89 (according to the international relative atomic mass in 2018)

3. Technical Requirements

3.1 Sensory requirements

Sensory requirements shall comply with the requirements of Table 1.

Table 1 Sensory requirements

Item	Requirement	Testing method
Color	Red to reddish brown	Take an appropriate amount of sample, place it in a clean, dry white porcelain dish, and observe
State	Crystal or crystalline powder	

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