



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

中华人民共和国国家标准

GB 8821-2011

National Standard of Food Safety

Food additives β -carotene

食品安全国家标准

食品添加剂 β -胡萝卜素

Issued on November 21, 2011

Implemented on December 21, 2011

Issued by Ministry of Health of the People's Republic of China

Foreword

The standard substitutes GB8821-2010 *National Standard of Food Safety Food Additive β -carotene*.

The standard has the major changes as follows in comparison with GB8821-2010:

—Modified the content of A.10 “Melting Point Measurement”.

The issuances of previous versions of the standard replaced by the standard are as follows:

——GB8821—1988;

——GB8821—2010.

National Standard of Food Safety

Food Additive β -carotene

1 Scope

This standard applies to food additive β -carotene made by chemical synthesis with vitamin A acetic acid ester as starting materials.

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

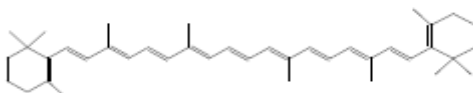
2.1 Chemical name

All-trans-1,1'-(3,7,12,16-tetramethyl-1,3,5,7,9,11,13,15,17-octadecenoic acid-9-olefine-1,18-dimethyl) bis [2,6,6-trimethyl cyclohexene]

2.2 Molecular formula

$C_{40}H_{56}$

2.3 Structural formula



2.4 Relative molecular mass

536.88 (according to international relative atomic mass 2007)

3 Technical requirements

3.1 Sensory requirements: It shall comply with provisions indicated in Table 1

Table 1 Sensory requirements

Items	Requirements	Test methods
Color	Purple red or red	Take proper amount of samples in a clean, dry white porcelain dish, observe its color and texture, and smell its odor under natural light.
Odor	Odorless	
Texture	Crystal or crystalline powder	

3.2 Physicochemical indicators: It shall comply with provisions indicated in Table

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