

ICS 71.100.60

CCS X 44



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

GB 1886.51-2015

Replacing GB 23488-2009

**National Food Safety Standard -- Food Additives - 2,
3-butanedione**

食品安全国家标准 食品添加剂 2,3-丁二酮

(English Translation)

Issued on: September 22, 2015

Implemented on: March 22, 2016

**Issued by: National Health and Family Planning Commission of the
People's Republic of China**

Table of Contents

Foreword

1 Scope

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

2.1 Chemical Name

2.3 Formula

2.4 Relative molecular mass

3 Technical requirements

3.1 Sensory requirements

3.2 Physical and Chemical Indicators

Foreword

This standard replaces GB 23488-2009 "Food Additives 2,3-butanedione." this standard compared with GB 23488-2009, the main changes are as follows.

--- Standard name was changed to "national food safety standards for food additives 2,3-butanedione." National Food Safety Standard Food additives 2,3-butanedione

1 Scope

This standard applies to chemical synthesis of food additives 2,3-butanedione (also known as diacetyl or diacetyl).

2.1 Chemical Name

2,3-butanedione

Formula 2.2

C₄H₆O₂

2.4 Relative molecular mass

86.09 (according to 2007 international relative atomic mass)

3.1 Sensory requirements

Sensory requirements shall comply with the requirements of Table 1.

Table 1 Sensory requirements

Project requires test methods Yellow to yellow-green color Liquid state the sample was placed in a cuvette, were visually observed with a strong aroma of butter aroma GB/T 14454.2 in very dilute solutions

3.2 Physical and Chemical Indicators

Physical and chemical indicators should be consistent with the provisions of Table 2.

Table 2. Physical and chemical indicators

Item Index Test Method 2,3-butanedione content, w /% ≥ 98.0 Appendix A Refractive index (20 °C) 1.3920 ~ 1.3980 GB/T 14454.4 the relative density (25 °C/25 °C) 0.978 ~ 0.988 GB/T 11540

NOTE: Food additives 2,3-butanedione storage temperature should be