

GB 1886.313-2020

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**GB**

NATIONAL STANDARD OF THE  
PEOPLE'S REPUBLIC OF CHINA

**GB 1886.313-2020**

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**National Food Safety Standard - Food Additive -  
Diphenyl Ethers**

食品安全国家标准 食品添加剂 联苯醚（又名二苯醚）

Issued on: September 11, 2020

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Issued by: National Health Commission of the PRC;  
State Administration for Market Regulation.

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# National Food Safety Standard - Food Additive - Diphenyl Ethers

## 1 Scope

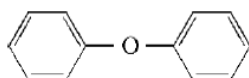
This Standard is applicable to the food additive of diphenyl ether made from phenol and chlorobenzene.

## 2 Molecular Formula, Structural Formula, and Relative Molecular Mass

### 2.1 Molecular formula

C<sub>12</sub>H<sub>10</sub>O

### 2.2 Structural formula



### 2.3 Relative molecular mass

170.21 (according to 2018 international relative atomic mass)

## 3 Technical Requirements

### 3.1 Sensory requirements

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

Table 1 -- Sensory Requirements

## Appendix A

### Test Methods

#### A.1 General rules

Unless otherwise specified in this Standard, the purity of the used reagents shall be above the analytical purity; and the standard solutions, formulations, and products for the determination of the used standard titration solutions and impurities shall be prepared according to the provisions of GB/T 601, GB/T 602, and GB/T 603. The test water shall comply with the provisions of Class-III water specified in GB/T 6682. The solution used in the test refers to an aqueous solution when it is not specified which solvent is used for preparation.

#### A.2 Identification test

Use attenuated total reflection infrared spectroscopy (ATR method) to measure the infrared absorption spectrum in accordance with GB/T 6040; the measured infrared spectrum shall be consistent with the standard diphenyl ether spectrum (see Appendix B).

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