



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

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National food safety standard - Food additive - Diphenyl ethers

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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

C₁₂H₁₀O

2.3 Relative molecular mass

170.21 (according to 2018 international relative atomic mass)

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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