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NATIONAL STANDARD OF THE

PEOPLE'S REPUBLIC OF CHINA

GB 1886.190-2016

Replacing GB 29224-2012

National Food Safety Standard -- Food Additives -- Ethyl Acetate

食品安全国家标准 食品添加剂 乙酸乙酯

(English Translation)

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2.1 Chemical Name
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1 Scope

This standard applies to styrene or benzene and ethylene oxide as raw materials, or cinnamic aldehyde as raw material food additive chemical reaction of Phenethyl alcohol.

2.1 Chemical Name

Phenethyl alcohol

Formula 2.2

C8H10O

2.4 Relative molecular mass

122.17 (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 Color colorless Liquid state the sample was placed in a cuvette, were visually observed Warm temperatures incense, rose, honey-like aroma GB/T 14454.2

3.2 Physical and Chemical Indicators

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

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Table 2. Physical and chemical indicators

Item Index Test Method Solubility (25 °C) 1mL sample soluble in 2mL50% (volume fraction) ethanol GB/T 14455.3 Phenethyl alcohol content, w /% >= 98.0 Appendix A Refractive index (20 °C) 1.529 ~ 1.535 GB/T 14454.4 the relative density (25 °C/25 °C) 1.017 ~ 1.020 GB/T 11540 GB 1886.192-2016 Appendix A Determination of ethanol content of benzene A.1 instruments and equipment A.1.1 chromatograph. According to GB/T 11538-2006 provisions in Chapter 5.

A.1.2 Column. capillary column.

A.1.3 Detector. Hydrogen flame ionization detector.

A.2 Determination

Area normalization method. According to GB/T 11538-2006 10.4 Determination.

A.3 repeatability and results are shown According to GB/T 11538-2006 provisions in 11.4, shall comply with the requirements.

Food additives benzene ethanol gas chromatograph and operating conditions, see Appendix B.

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Appendix B

Food additives phenylethanol GC operating conditions and FIG.

(Area normalization method) B.1 food additive gas chromatogram phenylethanol Food additives benzene ethanol gas chromatography is shown in Figure B.1.

Figure B.1 food additives benzene ethanol gas chromatogram

B.2 operating conditions B.2.1 Column. capillary column length 50m, an inner diameter of 0.25mm.

B.2.2 stationary phase. 100% dimethyl polysiloxane.

B.2.3 film thickness. 0.25μm.

B.2.4 chromatography oven temperature. 130 °C constant temperature 3min, then linear temperature programmed from 130 °C to 190 °C, the rate of 10 °C/min, and finally 190 °C constant temperature 10min.

B.2.5 Inlet temperature. 250 °C.

B.2.6 detector temperature. 250 °C.

B.2.7 Detector. Hydrogen flame ionization detector.

B.2.8 carrier gas. nitrogen.

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Before B.2.9 column pressure. 80kPa.

B.2.10 Injection volume. 0.2μL.

B.2.11 Split ratio. 100.1.

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