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Food additives Titanium Dioxide

(English Translation)

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1 Scope

This standard applies to acetic acid and isobutanol as raw materials prepared by the food additives isobutyl acetate.

2.1 Chemical name

Isobutyl acetate (2-methylpropyl acetate)

2.2 Molecular formula

C6H12O2

2.3 Structural formula

CH3COOCH2CH (CH3) 2

2.4 Relative molecular mass

116.16 (according to 2007 International Relative Atomic Quality)

3 Technical requirements

3.1
sensory requirements. should be consistent with the provisions of Table 1.

Table 1 sensory requirements

The project requires a test method Color and colorless State liquid Place the sample in a colorimetric tube with visual inspection Observation of law Aroma fragrance, diluted with banana - like aroma GB/T 14454.2

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3.2

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

Table 2 Physical and chemical indicators

Item Index Test Method Isobutyl acetate content, w /% >= 95.0 Appendix A Acid value (in KOH)/(mg/g) <= 1.0 GB/T 14455.5 Refractive index (20 ° C) 1.389 ~ 1.392 GB/T 14454.4 Relative density (25 °C/25 °C) 0.862 ~ 0.871 GB/T 11540 Appendix A Determination of isobutyl acetate content A.1 Instruments and equipment A.1.1 chromatograph. according to GB/T 11538-2006 in Chapter 5 of the provisions.

A.1.2 Column. Capillary column.

A.1.3 Detector. Hydrogen flame ionization detector.

A.2 Determination method Area normalization method. according to GB/T 11538-2006 10.4 determination of content.

A.3 repeatability and result representation According to GB/T 11538-2006 11.4 implementation of the provisions.

Food Additives Isobutyl Acetate Typical Gas Chromatography (Area Normalization) See Appendix B.

Appendix B

Food additives Acetic acid isobutyl ester Typical gas chromatogram (Area normalization method) B.1 Food additives Acetic acid isobutyl ester Typical gas chromatogram Food additives Acetic acid isobutyl ester Typical gas chromatograms are shown in Figure B.1.

Figure B.1 Food additives Acetic acid isobutyl ester Typical gas chromatogram

B.2 Operating conditions B.2.1 Column. capillary column, length 30m, inner diameter 0.32mm.

B.2.2 Stationary phase. (5% phenyl) methylpolysiloxane.

B.2.3 Film thickness. 0.25 μm.

B.2.4 Chromatographic furnace temperature. 120 °C constant temperature.

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.

B.2.9 Carrier gas flow rate. about 30 mL/min.

B.2.10 Injection volume. 0.2 μL.

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B.2.11 Split ratio. 1/75.

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