

ICS 67.220.20
CCS C 54;X40



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

GB 28326-2012

**Food additives -- Hexyl acetate
(English Translation)**

Issued on: January 1, 1970

Implemented on: January 1, 1970

Issued by: Ministry of Health of the People's Republic of China

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1 Scope

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

2.1 Chemical name

Hexyl acetate

2.2 Molecular formula

C₈H₁₆O₂

2.3 Structural formula

CH₃COO (CH₂)₅CH₃

2.4 Relative molecular mass

144.21 (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 Visual observation Fragrance Fragrance GB/T 14454.2

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 Solubility (25 ° C) 1 mL The sample was dissolved in 1 mL of 95% by volume ethanol. GB/T 14455.3 Hexyl acetate content, w /% ≥ 98.0 Appendix A Acid value (in KOH)/(mg/g) ≤ 1.0 GB/T 14455.5 Refractive index (20 ° C) 1.407 ~ 1.411 GB/T 14454.4 Relative density (25 ° C/25 ° C) 0.868 ~ 0.872 GB/T 11540 Appendix A Determination of hexyl 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 Cetyl Acetate Typical Gas Chromatography (Area Normalization) See Appendix B.

Appendix B

Food Additives Acetyl Acetate Typical Gas Chromatography (Area normalization method)

B.1 Food Additive Acetylhexylate Typical Gas Chromatography A typical gas chromatogram of the food additive, hexyl acetate, is shown in Figure B.1.

Figure B.1 Typical additives for food additives, hexyl acetate

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 Temperature of the chromatographic furnace. 130 °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 .

B.2.11 Split ratio. 1/75.