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

GB 29981-2013

**Food additive --
N-ethyl-2-isopropyl-5-methyl-cyclohexanecarboxamide**

食品添加剂 N-乙基-2-异丙基-5-甲基-环己烷甲酰胺

(English Translation)

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1 Scope

This standard applies to the l- menthol and ethylamine for raw materials of food additives N-ethyl-2-isopropyl-5-methyl - cyclohexane carboxamido amine.

2.1 Chemical Name

N- ethyl-2-isopropyl-5-methyl - cyclohexanecarboxamide Formula 2.2 C₁₃H₂₅ON

2.4 Relative molecular mass

211.35 (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 the white color sample placed on a clean white paper, were visually observed State of the crystalline solid Slight aroma of mint-like cool taste GB/T 14454.2

3.2 Physical and Chemical Indicators

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

Table 2. Physical and chemical indicators

Item Index Test Method N- ethyl-2-isopropyl-5-methyl - cyclohexanecarboxamide content, w /% >= 99.0 Appendix A Melting point (°C) 91 ~ 98 GB/T 14457.3 Appendix A

Ethyl-2-isopropyl-N- methyl -5--- cyclohexanecarboxamide Content Determination 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.

Sample Preparation. Weigh 1 g sample was dissolved in 2 mL of anhydrous ethanol, shake spare.

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

Food Additives N- ethyl-2-isopropyl-5-methyl - cyclohexane carboxamide gas chromatograph (area normalization method) See Appendix B.

Appendix B

Food additives N- ethyl-2-isopropyl-5-methyl - cyclohexanecarboxamide gas chromatogram (Area normalization method) B.1 food additives N- ethyl-2-isopropyl-5-methyl - cyclohexanecarboxamide gas chromatogram

Figure B.1.

1-- ethanol;

2 - N- ethyl-2-isopropyl-5-methyl - cyclohexane carboxamide.

Figure B.1 food additives N- ethyl-2-isopropyl-5-methyl - cyclohexanecarboxamide gas chromatogram

B.2 operating conditions B.2.1 Column. capillary column, length 30 m, an inner diameter of 0.25 mm.

B.2.2 stationary phase. polyethylene glycol.

B.2.3 film thickness. 0.25 μ m.

B.2.4 chromatography oven temperature. 200 °C constant temperature.

B.2.5 Inlet temperature. 220 °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. 1.2 mL/min.

B.2.10 Injection volume. about 0.2 μ L.

B.2.11 split ratio. 80?1.