



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

GB 28338-2012

**National food safety standards -- Food additives -- l-Menthyl
lactate**

食品添加剂 乳酸l-薄荷酯

(English Translation)

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1 Scope

This Standard applies to the food additive l-menthyl lactate made from lactic acid and l-menthol as raw materials.

2 Chemical name, molecular formula, structural formula and

relative molecular mass

2.1 Chemical name

5-methyl-2-(1-methylethyl) cyclohexanol alpha-hydroxypropionate

2.2 Molecular formula

C₁₃H₂₄O₃

2.4 Relative molecular mass

228.33 (according to the international relative atomic mass in 2007)

3 Technical requirements

3.1

Sensory requirements. shall meet the requirements of Table 1.

Appendix A

Determination of l-menthyl lactate content

A.1.1 Chromatograph. in accordance with the requirements of Chapter 5 of GB/T 11538-2006.

A.1.2 Column. capillary column.

A.1.3 Detector. Hydrogen flame ionization detector.

A.2 Determination method

Area normalization method. Determine the content according to 10.4 of GB/T 11538-2006.

A.3 Repeatability and result presentation

Follow the provisions of 11.4 in GB/T 11538-2006.

For the typical gas chromatogram of the food additive l-menthyl lactate (area normalization method), refer to Appendix B.

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