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NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA

GB 28338-2012

**National food safety standard - Food additive - L-menthyl
lactate**

食品安全国家标准 食品添加剂 乳酸 1-薄荷酯

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National food safety standard - Food additive - L-menthyl lactate

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

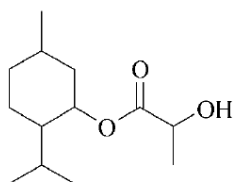
2.1 Chemical name

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

2.2 Molecular formula

$C_{13}H_{24}O_3$

2.3 Structural formula



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 Instruments and apparatuses

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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