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# SPECIFICATION

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**Product name** Ligustral  
**Product code** XLNQ01  
**Production unit** Shandong NHU Pharmaceutical Co., Ltd.

## Ingredients

**Synonym** Trans-2,4-dimethylcyclohex-3-ene-1-carbaldehyde (Isomer1)  
Cis-2,4-dimethylcyclohex-3-ene-1-carbaldehyde (Isomer2)  
3,5-dimethylcyclohex-3-ene-1-carbaldehyde (Isomer3)

**Formula** C<sub>9</sub>H<sub>14</sub>O  
**Molecular weight** 138,21 g/mol  
**EC No.** 943-728-2  
**FEMA No.** 4505

## Properties

**Shelf life** 24 months after production date in unopened original packaging

**Appearance** Colourless liquid  
**Odour** green grass, citrus fruit  
**Assay (GC)** ≥ 99 %  
**Composition** Reaction mass of 2,4-dimethylcyclohex-3-ene-1-carbaldehyde and 3,5-dimethylcyclohex-3-ene-1-carbaldehyde

**Isomer 1 (GC)** ≥ 18,5 %  
**Isomer 2 (GC)** 69,0 – 81,0 %  
**Isomer 3 (GC)** ≤ 5,0 %  
**Isomer 1 + 3 (GC)** 19 – 32 %

**Refractive index (20 °C)** 1,469 – 1,475  
**Relative density (25 °C/25 °C)** 0,926 – 0,939  
**Acid value** ≤ 2,0 mg KOH/g

## Handling

**Usage** Product could be used as fragrance

**Storage** Store in shade and dry places

**Transport instructions** See our latest safety data sheet

Classified as **dangerous goods** as per EU reg.

## NHU EUROPE GmbH

