

Lauric acid Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Lauric acid

Catalog No.: CFN90493

Cas No.: 143-07-7

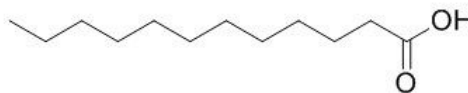
Purity: >=98%

M.F: C₁₂H₂₄O₂

M.W: 200.32

Physical Description: Powder

Synonyms: Dodecanoic acid.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

[Source]

The leaves of *Trachycarpus fortunei*.

[Biological Activity or Inhibitors]

Lauric acid has strong bactericidal properties, both intradermal injection and epicutaneous

application of lauric acid can effectively decrease the number of *P. acnes* colonized with mouse ears, thereby relieving *P. acnes*-induced ear swelling and granulomatous inflammation, suggests that lauric acid has potential as an alternative treatment for antibiotic therapy of acne vulgaris.^[1]

Lauric acid can antagonize the up-regulatory effect of IFN- γ on Intercellular Adhesion Molecule-1 (ICAM-1) and VCAM-1 expressions in THP-1 macrophages, indicates that lauric acid may be an anti-inflammatory therapeutic and prophylaxis agent for atherosclerosis.^[2]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method]^[3]

Mobile phase: 0.05% Acetic acid in water- Methanol,gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 205 nm.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Nakatsuji T, Kao M C, Fang J Y, *et al. J. Invest. Dermatol.*, 2009, 129(10):2480-8.

[2] Wei-Siong Lim, Mary-Shi-Ying Gan, Melissa-Hui-Ling Ong,*et al.Asian Pacific Journal of Reproduction*, 2015, 4(3):217-21.

[3] Jiann Tsyh Lin, Charlotta Turner, Thomas A. McKeon. *J. Liq. Chromatogr.R.T.*, 2004, 27(10):1641-6.

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