

4-Nitrocinnamic acid Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: 4-Nitrocinnamic acid

Catalog No.: CFN98185

Cas No.: 619-89-6

Purity: >=98%

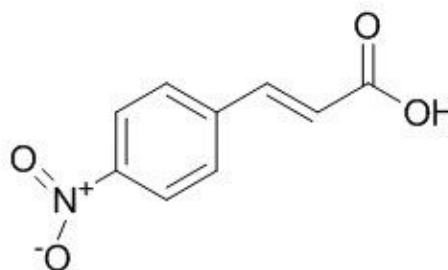
M.F: C₉H₇NO₄

M.W: 193.16

Physical Description: Yellow cryst.

Synonyms: (2E)-3-(4-nitrophenyl)prop-2-enoate; (2Z)-3-(4-nitrophenyl)prop-2-enoic acid.

3-(4-Nitrophenyl)acrylic acid.



[Intended Use]

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

[Source]

The heartwood of *Cassia garrettiana*.

[Biological Activity or Inhibitors]

4-Nitrocinnamic acid is a photosensitive compound.^[1]

4-Nitrocinnamic acid has inhibitory effects on tyrosinase.^[2]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[3]

Mobile phase: 0.01% Formic acid in water- 0.07% Formic acid in 30%acetonitrile,gradient elution ;

Flow rate:1.0 ml/min;

Column temperature: 30℃;

The wave length of determination:260 nm.

[Storage]

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

[References]

[1] Park J J, Jang E J, Jun S A, *et al.* *US* 8758864 B2[P]. 2014.

[2] Cui Y, Hu Y H, Yu F, *et al.* *Int. J. Biol. Macromol.*,2017 Feb;95:1289-97.

[3] Wu B, Szymanski W, Wietzes P, *et al.* *Chembiochem*, 2009,10(2):338-44.

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