

4-Chlorocinnamic acid Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: 4-Chlorocinnamic acid

Catalog No.: CFN98184

Cas No.: 1615-02-7

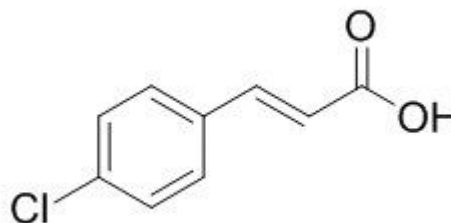
Purity: > =99%

M.F: C₉H₇ClO₂

M.W: 182.60

Physical Description: Cryst.

Synonyms: trans-3-(4-Chlorophenyl)propenoic 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-Chlorocinnamic acid is a photosensitive compound.^[1]

2-Chlorocinnamic acid and 4-chlorocinnamic acid show potent urease inhibitory activities with the respective IC₅₀ values of 0.66 and 1.10 μ M.^[2]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, 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°C;

The wave length of determination:260 nm.

[Storage]

2-8°C, 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] Li X, Wang Y, Li Y, *et al.* *Zeitschrift Für Anorganische Und Allgemeine Chemie*,2014, 640(2):423-8.

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

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