

4-(Dimethylamino)cinnamaldehyde Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: 4-(Dimethylamino)cinnamaldehyde

Catalog No.: CFN98120

Cas No.: 6203-18-5

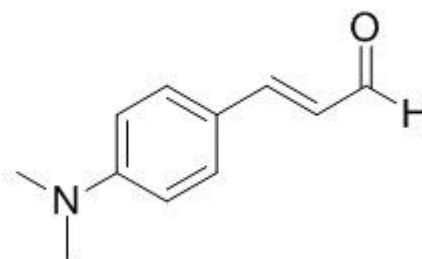
Purity: >=98%

M.F: C₁₁H₁₃NO

M.W: 175.23

Physical Description: Yellow powder

Synonyms: (2E)-3-[4-(Dimethylamino)phenyl]-2-propenal; 3-(4-(Dimethylamino)phenyl)-2-Propenal.



[Intended Use]

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

[Source]

The barks of *Cinnamomum cassia* Presl.

[Biological Activity or Inhibitors]

The 4-(dimethylamino)cinnamaldehyde (DMAC) assay is currently used to quantify proanthocyanidin (PAC) content in cranberry products.^[1]

4-Dimethylaminocinnamaldehyde is a photometric reagent for primary aromatic amines.^[2]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: 2.5% Aqueous acetic acid- 10%Acetonitrile in 2.5% aqueous acetic acid

-Acetonitrile,gradient elution;

Flow rate:0.5 ml/min;

Column temperature: 25°C;

The wave length of determination:280 nm.

[Storage]

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

[References]

[1] Krueger C G, Chesmore N, Chen X, *et al. J.Funct. Foods*, 2016, 22:13-9.

[2] Doronin C Y, Chernova R K, Gusakova N N. *J. Anal. Chem.*, 2004, 59(4):335-44.

[3] Correia H, Gonzálezparamás A, Amaral M T, *et al. Biomed. Chromatogr.*, 2006, 20(1): 88-94.

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