

Zeaxanthin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Zeaxanthin

Catalog No.: CFN90234

Cas No.: 144-68-3

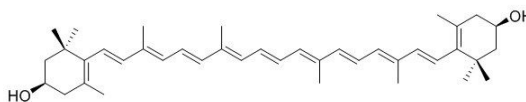
Purity: >=98%

M.F: C₄₀H₅₆O₂

M.W: 568.88

Physical Description: Powder

Synonyms: 4-[18-(4-Hydroxy-2,6,6-trimethyl-1-cyclohexenyl)-3,7,12,16-tetramethyl-octadeca-1,3,5,7,9,11,13,15,17-nonaenyl]-3,5,5-trimethyl-cyclohex-3-en-1-ol; (3R,3'R)-beta,beta-Carotene-3,3'-diol.



[Intended Use]

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

[Source]

The fruits of *Zea mays* L.

[Biological Activity or Inhibitors]

Zeaxanthin and lutein dietary supplements raise macular pigment density and serum concentrations of these carotenoids in humans.^[1]

Zeaxanthin, a retinal carotenoid, protects retinal cells against oxidative stress.^[2]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: Methanol-Acetonitrile=49:51(containing 0.05% triethylamine) ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 450 nm.

[Storage]

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

[References]

[1] Bone R A, Landrum J T, Guerra L H, *et al. J.Nutr.*, 2003, 133(4):992-8.

[2] Nakajima Y, Shimazawa M, Otsubo K, *et al. Curr. Eye Res.*, 2009, 34(4):311-8.

[3] Li N. *Chinese Journal of New Drugs*, 2006, 15(16):1381-2.

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