

Synephrine Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Synephrine

Catalog No.: CFN99551

Cas No.: 94-07-5

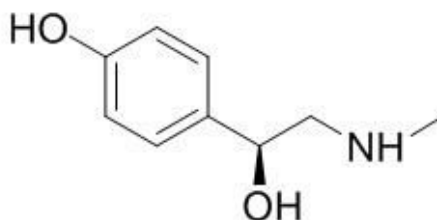
Purity: >=98%

M.F: C₉H₁₃NO₂

M.W: 167.21

Physical Description: White powder

Synonyms: Oxedrine; 4-hydroxy- α -(methylaminomethyl)benzyl alcohol.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Ingredient in supplements, beverages;
5. Synthetic precursor compounds;
6. Intermediates & Fine Chemicals;
7. Others.

[Source]

The young fruits *Citrus aurantium* L.

[Biological Activity or Inhibitors]

Citrus aurantium (bitter orange) extract and its principal protoalkaloidal constituent p-synephrine are widely used in weight loss and weight management as well as in sports performance products, the data indicate that based on current knowledge, the use of bitter orange extract and p-synephrine appears to be exceedingly safe with no serious adverse effects being directly attributable to these ingredients.^[1]

p-Synephrine has antidepressant-like effects in the murine models of forced swimming and tail suspension.^[2]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: Acetonitrile- H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 45 °C;

The wave length of determination: 265 nm.

[Storage]

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

[References]

[1] Stohs S J, Preuss H G, Shara M. *Phytother. Res.*, 2011, 25(10):1421-8.

[2] Kim K W, Kim H D, Jung J S, *et al. N.S. Arch. Pharmacol.*, 2001, 364(1):21-6.

[3] Ying L, Xu F, Zhang Z, *et al. J. Chromatogr. Sci.*, 2009, 47(10):925-30.

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