

Fructose Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Fructose

Catalog No.: CFN98121

Cas No.: 57-48-7

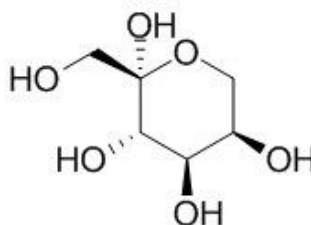
Purity: >=98%

M.F: C₆H₁₂O₆

M.W: 180.16

Physical Description: White cryst.

Synonyms: Arabino-hexulose; D-fructos; Nevulose.



[Intended Use]

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

[Source]

The leaves of *Ginkgo biloba* L.

[Biological Activity or Inhibitors]

Dietary fructose can specifically increase hepatic de novo lipogenesis (DNL), promote dyslipidemia, decreases insulin sensitivity, and increase visceral adiposity in overweight/obese adults.^[1]

Fructose may be detrimental in terms of body weight and adiposity and the metabolic indexes associated with the insulin resistance syndrome.^[2]

Dietary fructose can reduce circulating insulin and leptin, attenuate postprandial suppression of ghrelin, and increase triglycerides in women. ^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: 0.04 M Phosphoric acid, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 50 °C;

The wave length of determination: 200 nm.

[Storage]

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

[References]

[1] Stanhope K L, Schwarz JM, Keim NL, *et al. J. Clin. Invest.*, 2009, 119(5):1322-34.

[2] Elliott S S, Keim N L, Stern J S, *et al. Am. J. Clin. Nutr.*, 2002, 76(5):911-22.

[3] Teff K L, Elliott S S, Tschöp M, *et al. J. Clin. Endocr. Metab.*, 2004, 89(6):2963-72.

[4] Zhou N. *Chinese Journal of Modern Applied Pharmacy*, 2011(s1):1357-9.

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