

Xylitol Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Xylitol

Catalog No.: CFN99510

Cas No.: 87-99-0

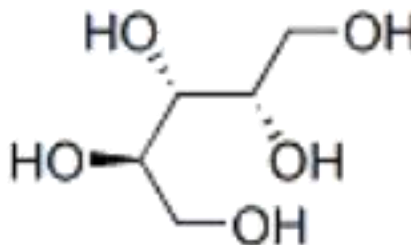
Purity: >=98%

M.F: C₅H₁₂O₅

M.W: 152.15

Physical Description: White cryst.

Synonyms: 1,2,3,4,5-Pentahydroxypentane.



[Intended Use]

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

[Source]

The roots of *Primula officinalis*.

[Biological Activity or Inhibitors]

Xylitol, sorbitol, and even sugar gum has been suggested to reduce caries rates, the systematic usage of polyol-based chewing gums reduces caries rates in young subjects, with xylitol gums being more effective than sorbitol gums.^[1]

Xylitol, a commonly used sweetener, it can inhibit the growth of pneumococci, it is effective in preventing otitis media and decreasing the need for antimicrobials when xylitol sugar given in a syrup or chewing gum.^[2]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[3]

HPLC-ELSD:

Mobile phase: Acetonitrile-H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

Drift tube temperature: 80 °C;

Flow rate of gas : 2.2 L/min;

Carrier gas: N₂.

[Storage]

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

[References]

[1] Mäkinen K K, Bennett C A, Hujoel P P, *et al. J. Dent. Res.*, 1995, 74(12):1904-13.

[2] Uhari M, Kontiokari T, Niemelä M. *Pediatrics*, 1998, 102(4 Pt 1):879-84.

[3] Sun S H, Wang H, Xie J P, *et al. Chemistry Central Journal*, 2016, 10(1):25.

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