

3,4-Dihydroxyphenylglycol Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: 3,4-Dihydroxyphenylglycol

Catalog No.: CFN98355

Cas No.: 28822-73-3

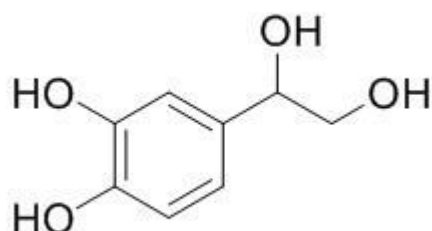
Purity: > 95%

M.F: C₈H₁₀O₄

M.W: 170.2

Physical Description: Powder

Synonyms:dl-3-4-Dihydroxyphenyl glycol*crystalline;4-(1,2-Dihydroxyethyl)benzene-1,2-diol.



[Intended Use]

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

[Source]

The seeds of *Ligustrum lucidum*.

[Biological Activity or Inhibitors]

Plasma 3,4-dihydroxyphenylglycol and 3-methoxy-4-hydroxyphenylglycol are insensitive indicators of alpha 2-adrenoceptor mediated regulation of norepinephrine release in healthy human volunteers.^[1]

3,4-Dihydroxyphenylglycol has antioxidant properties.^[2]

3,4-Dihydroxyphenylglycol and hydroxytyrosyl acetate show a strong reactive oxygen species (ROS)-scavenging activity, reducing significantly nitrite levels with a significant decrease on iNOS expression, their phenolic derivatives could play an important role in the anti-inflammatory effect of extra virgin olive oil.^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Acetonitrile- 1% Acetic acid aqueous solution=50:50;

Flow rate:0.5 ml/min;

Column temperature: 30°C;

The wave length of determination:280 nm.

[Storage]

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

[References]

[1] Scheinin M, Karhuvaara S, Ojala-Karlsson P, *et al. Life Sci.*,1991,49(1):75-84.

[2] Rodríguez-Gutiérrez G, Duthie G G, Wood S, *et al. Mol. Nutr. Food Res.*,2012 Jul; 56(7):1137-47.

[3] Aparicio-Soto M, Sánchez-Fidalgo S, González-Benjumea A, *et al. J. Agric. Food Chem.*,2015 Jan 28;63(3):836-46.

[4] Alzweiri M, Al-Hiari Y M. *Jordan Journal of Pharmaceutical Sciences*, 2013, 6(3):314-22.

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