

Cyanidin Chloride Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Cyanidin Chloride

Catalog No.: CFN99741

Cas No.: 528-58-5

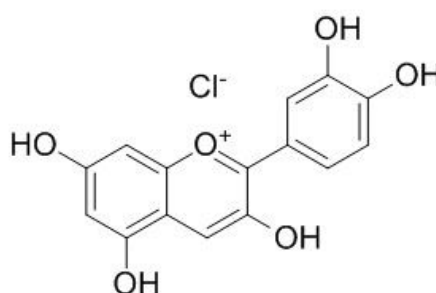
Purity: >=98%

M.F: C₁₅H₁₁O₆Cl

M.W: 322.70

Physical Description: Powder

Synonyms: 2-(3,4-dihydroxyphenyl)-3,5,7-trihydroxy-1-benzopyryliumchloride;
3,3',5,7-pentahydroxy-flavyliumchloride;Cyanidol.



[Intended Use]

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

[Source]

The peel of *Glycinemax (L.) merr.*

[Biological Activity or Inhibitors]

Cyanidinium chloride-loaded liposomes have in vitro and in vivo antibacterial activities against a resistant strain of *Pseudomonas aeruginosa*.^[1]

Cyanidin chloride has strong antioxidative activity in a liposomal system and reduces the formation of malondialdehyde by UVB irradiation.^[2]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[3]

Mobile phase: 5 mM Heptanesulfonate acid sodium salt-Acetonitrile-Glacial acetic acid=73:27:1.5 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 530 nm.

[Storage]

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

[References]

[1] Gharib A, Faezizadeh Z, Mesbahnamin S A. *Planta Med.*, 2013, 79(1):15-9.

[2] Tsuda T, Shiga K, Ohshima K, *et al.* *Biochem. Pharmacol.* 1996, 52(7):1033-9.

[3] Jin H Y, Tian J G, Du Q P. *Chinese Journal of Pharmaceutical Analysis*, 2005(5):505-7.

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