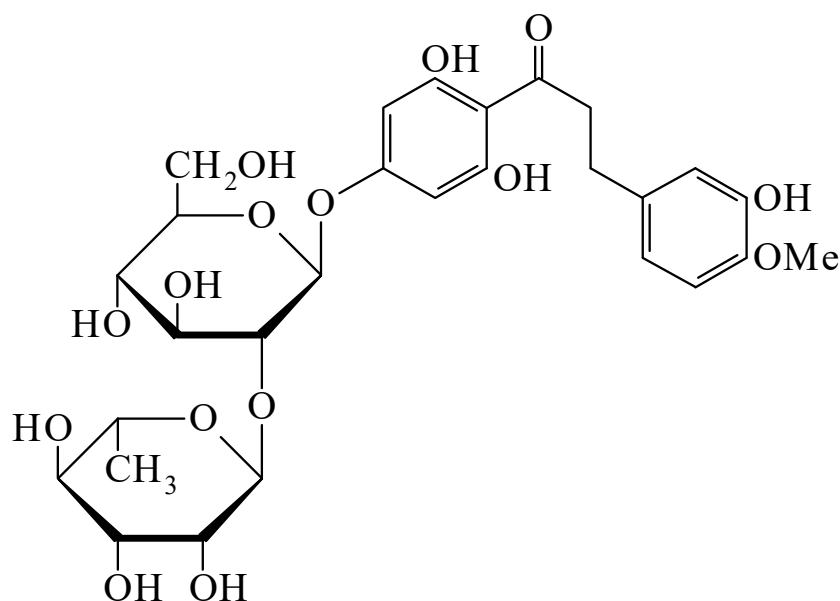




>>Entry Name: Neohesperidin dihydrochalcone

ENTRY UNDER REVIEW

Synonym(s): Neohesperidin DHC. E959. FEMA 3811. NHDHC. NHDC



CAS Registry Number: 20702-77-6

Molecular Formula: $C_{28}H_{36}O_{15}$

Molecular Weight: 612.583

Accurate Mass: 612.205425

Percentage Composition: C 54.90%; H 5.92%; O 39.18%

Source/Synthesis: Derived semisynthetically from 3',5,7-Trihydroxy-4'-methoxyflavanone [CNB06-R](#)

Use/Importance: Intensely sweet, 612 times more sweet than sucrose. ADI 5 mg/kg (1987). Permitted in EU at low concs. (=10 ppm) for certain applications, e.g. low-alcohol beer. Generally recognised as safe (GRAS) in the USA

Other Data: Practical use limited by slow development of taste sensation and peculiar aftertaste. Analogues extensively studied

Sigma: N8757

Supelco: R47-4785

References:

- Horowitz, R.M. *et al.*, *J. Agric. Food Chem.*, 1969, **17**, 696, (rev)
DuBois, G.E. *et al.*, *J. Med. Chem.*, 1981, **24**, 408
Lina, B.A.R. *et al.*, *Food Chem. Toxicol.*, 1990, **28**, 507, (tox)
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