Neohesperidin Dihydrochalcone (NHDC) 98%

$C_{28}H_{36}O_{15}$ · CAS 20702-77-6 · Neohesperidin dihydrochalcone, hydrogenated citrus flavonoid

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

IDENTITY / FORM	FORMULA	CAS	PRIMARY ASSAY
Neohesperidin dihydrochalcone, hydrogenated citrus flavonoid	$C_{28}H_{36}O_{15}$	20702-77-6	≥98.0% (HPLC)
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
HPLC with UV detection at 280 nm	1 kg	3–10 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

A 98% neohesperidin dihydrochalcone for trace-level sweetness, bitterness modification and mouthfeel, with a clear distinction from naringin DC.

SWEETNESS

1,500–2,000 × sucrose, indicative

TASTE NOTE

Intense sweetness with a slow onset, a long lingering tail and a cooling, slightly menthol-like note at higher doses.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Neohesperidin dihydrochalcone	≥98.0% (HPLC)	As stated
Neohesperidin	≤1.0% (HPLC)	As stated
Appearance	White to off-white powder	As stated
Moisture	≤5.0%	As stated
pH (1% solution)	5.0–7.0	As stated
Solubility	Slightly soluble in water; soluble in ethanol	As stated
Particle size	≥95% through 80 mesh	As stated
Bulk density	0.35–0.65 g/mL	As stated
Heavy metals	Pb ≤0.5 · As ≤0.5 · Cd ≤0.5 · Hg ≤0.1 mg/kg	As stated
Microbiology	APC ≤1,000 cfu/g · yeast and mould ≤100 cfu/g · E. coli and Salmonella absent	As stated
Marker / profile	NHDC ≥98%, neohesperidin ≤1%	Identity

PARAMETER	SPECIFICATION	METHOD / NOTE
Solubility	Slightly soluble in water; a co-solvent or a diluted pre-mix is usually needed in beverages.	Matrix dependent
Starting use level	0.0003–0.005% in food, depending on the category and the blend	Application dependent
pH behaviour	Stable in mildly acidic to neutral systems; solubility is usually the limiting factor.	Matrix dependent

APPLICATIONS

- Beverages
- Confectionery
- Chewing gum
- Oral care
- Flavour systems

AVAILABLE FORMS

- Powder, 80 mesh
- Granular
- Liquid on request

PACKING

- 1 kg foil pouch
- 25 kg fiber drum

STORAGE

Store in a cool, dry, well-ventilated area, away from direct sunlight and moisture. Keep the pack closed after sampling. The lot-specific retest date is shown on the batch COA.

DOCUMENTATION RELEASED WITH EACH LOT

- Batch-specific certificate of analysis
- Technical data sheet and safety data sheet
- Allergen, GMO, origin and residual-solvent statements
- Third-party reports on request

Catalog document. This TDS describes the grade we can quote. The final specification, pack and documentation are confirmed in writing before the order. It is not a batch COA and does not report a result for a specific lot.

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