# Saccharin Sodium (Dihydrate)

*$C_7H_5NNaO_3S·2H_2O$ · CAS 6155-57-3 · Sodium saccharin dihydrate, crystalline powder*

**CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION**

| IDENTITY / FORM | FORMULA | CAS | PRIMARY ASSAY |
|---|---|---|---|
| Sodium saccharin dihydrate, crystalline powder | $C_7H_5NNaO_3S·2H_2O$ | 6155-57-3 | 99.0–101.0% (HPLC) |
| **METHOD** | **MINIMUM ORDER** | **LEAD TIME** | **STANDARD PACK** |
| HPLC with UV detection | 1 kg | 1–7 days | 1 kg foil pouch · 25 kg fiber drum |

## DESCRIPTION

A sodium saccharin dihydrate for tabletop and cost-sensitive sweetening, specified by assay on the dried basis, moisture and the metallic-tail taste that limits its use.

## SWEETNESS

300–500 × sucrose, indicative

## TASTE NOTE

Fast, intense sweetness with a metallic and bitter linger; rarely used alone in a premium-taste application.

## SPECIFICATION

| PARAMETER | SPECIFICATION | METHOD / NOTE |
|---|---|---|
| Assay (dried basis) | 99.0–101.0% (HPLC) | As stated |
| Appearance | White crystalline powder or granules | As stated |
| Moisture | 13.5–15.0% (dihydrate) | As stated |
| pH (10% solution) | 5.0–8.0 | As stated |
| Solubility | Freely soluble in water | As stated |
| Particle size | ≥95% through 80 mesh; granular on request | As stated |
| Bulk density | 0.60–0.90 g/mL | As stated |
| Benzoate and salicylate | Absent by the specified test | 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 | Sodium saccharin 99.0–101.0% (dried basis), dihydrate | Identity |
| Solubility | Freely soluble in water; the dihydrate loses water on heating and should not be dried before use. | Matrix dependent |

| PARAMETER | SPECIFICATION | METHOD / NOTE |
|---|---|---|
| Starting use level | 0.005–0.05% in beverages, depending on the blend | Application dependent |
| pH behaviour | Stable across normal food pH; no significant hydrolysis at typical use conditions. | Matrix dependent |

## APPLICATIONS

- Tabletop
- Beverages
- Confectionery
- Oral care
- Chewing gum

## AVAILABLE FORMS

- Powder, 80 mesh
- Granular
- Anhydrous 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.

Shaanxi Rainwood Biotech Co., Ltd. · Rm 218, Tangxing Digital Bldg, #6 Tangxing Rd, Xi'an, Shaanxi, China
info@rainwoodbio.com · sweeteners.rainwoodbio.com