Ferrous Gluconate

$C_{12}H_{22}FeO_{14}\cdot 2H_2O$ · CAS 299-29-6 · Ferrous gluconate dihydrate, powder

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

CHEMICAL FORM	FORMULA	CAS	PRIMARY ASSAY
Ferrous gluconate dihydrate, powder	$C_{12}H_{22}FeO_{14}\cdot 2H_2O$	299-29-6	11.8–12.5% (cerimetric titration)
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
Cerimetric titration	1 kg	1–7 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

Ferrous gluconate dihydrate specified at 11.8–12.5% elemental iron on the dried basis, for capsules and tablets where the ferrous state and the hydrate have to be declared.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Iron (Fe), dried basis	11.8–12.5% (cerimetric titration)	As stated
Appearance	Greyish-yellow to greenish-yellow powder	As stated
Identification	Ferrous reaction and IR conform	As stated
Loss on drying	≤8.0%	As stated
pH (5% solution)	3.0–5.0	As stated
Particle size	≥95% through 80 mesh	As stated
Heavy metals	Pb ≤3 · As ≤2 · Cd ≤1 · 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 set	Iron (11.8–12.5%, dried basis)	Identity
Solubility	Soluble in water with gentle warming; the solution is acidic.	Matrix dependent

APPLICATIONS

- Capsules and tablets
- Powder sticks and drink mixes

AVAILABLE FORMS

- Dihydrate powder, 80 mesh
- Granulated on request
- Milled to 100 mesh on request

PACKING

STORAGE

- 1 kg foil pouch
- 25 kg fiber drum

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 · nutrition.rainwoodbio.com