

## 5012 – CALCIUM CITRATE (TETRAHYDRATE) (FOOD GRADE)

REF NO: TBL/QA/SS/F/5012	STANDARD SPECIFICATION FOR CALCIUM CITRATE (TETRAHYDRATE) (FOOD GRADE)	Rev. No: 03
Issue No: 04		Review Date: 06/02/2025
Issue Date: 07/02/2022		Product code: 5012

### PRODUCT PROPERTIES

C.A.S Number	813-94-5
Chemical Formula	$C_{12}H_{10}Ca_3O_{14} \cdot 4H_2O$
Formula weight	570.51
Functional Uses	Calcium citrate (tetrahydrate) is used as sequestrant, buffer, firming agent Improvement of baking property of flour.
Standard Packaging	50 Kg

### PHYSICAL PARAMETERS

PRODUCT PARAMETER	SPECIFICATION
Appearance	Odorless, fine white powder
Solubility	Very slightly soluble in water. Insoluble in ethanol.
Test for citrate	Passes test
Test for calcium	Passes test

### CHEMICAL PARAMETERS

PRODUCT PARAMETER	SPECIFICATION
Loss on drying (150° , 4 h)	10.0% – 14.0%
Fluorides	NMT – 30 mg/kg
Free acid and alkali	Passes test
Oxalate	Passes test
Lead	NMT – 2.0 mg/kg
Assay (after drying)	NLT – 97.5%

**NOTE:** Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

