



TECHNICAL DATA SHEET

Product Name: Organic Spinach Powder

Botanical Name: *Spinacia oleracea*

CAS Number: 90131-25-2

Molecular Formula: N/A

Molecular Weight: N/A

EINECS No.: N/A

EC Code: Not allocated

1. Product Description

Organic Spinach Powder is a fine green powder produced from fresh, organically grown spinach leaves through washing, drying, and milling processes. It retains the natural nutrients, color, and flavor of spinach. The product is widely used in food, beverage, and nutraceutical applications as a natural source of vitamins, minerals, and antioxidants. It is free from synthetic additives, pesticides, and GMOs.

2. Specification

Parameter	Specification
Appearance	Fine dark green powder
Odor	Characteristic spinach odor
Bulk Density	0.4 – 0.6 g/cm ³
Particle Size	80 – 100 mesh
Identification	Positive
Moisture	≤ 8.0%
Ash	≤ 12.0%
pH (1% solution)	5.5 – 6.5
Chlorophyll	≥ 100 mg/100g
Heavy Metals (Pb)	≤ 2 ppm
Arsenic (As)	≤ 1 ppm
Cadmium (Cd)	≤ 1 ppm
Mercury (Hg)	≤ 0.1 ppm
Pesticide Residues	Not detected

Microbiological Standards

Parameter	Specification
Total Plate Count	≤ 10,000 CFU/g
Yeast & Mold	≤ 100 CFU/g
E. coli	Negative
Salmonella	Negative

3. Applications

Nutritional supplements and functional foods
Smoothies, juices, and powdered beverages
Bakery products, pasta, and snacks
Natural food coloring agent
Organic and baby food formulations

4. Packaging and Storage

Packaging: 25 kg net per kraft paper bag with inner PE liner or fiber drum

Shelf Life: 24 months under recommended storage conditions

Storage Conditions: Store in a cool, dry place, away from direct sunlight, heat, and moisture

5. Regulatory Status

Certified Organic (USDA / EU standards available upon request)

Non-GMO

Free from additives and preservatives

Compliant with international food safety regulations