



TECHNICAL DATA SHEET

Product Name: Vitamin B2 (Riboflavin)

CAS Number: 83-88-5

Molecular Formula: C₁₇H₂₀N₄O₆

Molecular Weight: 376.36

EINECS No.: 201-507-1

EC Code: Not allocated

1. Product Description

Vitamin B2 (Riboflavin) is a yellow to orange-yellow crystalline powder widely used as a nutritional fortification ingredient in food, dietary supplements, pharmaceutical preparations, and feed applications. As an essential water-soluble vitamin, Riboflavin plays an important role in energy metabolism, antioxidant activity, and maintaining healthy skin, eyes, and nervous system function. It is suitable for tablets, capsules, powders, beverages, and premix formulations.

2. Specification

Parameter	Specification
Appearance	Yellow or orange-yellow crystalline powder
Identification	Positive
Lumiflavin	≤ 0.025
Specific Rotation	-115° ~ -135°
Assay	98.0% – 102.0%
Loss on Drying	≤ 1.5%
Residue on Ignition	≤ 0.3%
Lead	≤ 1 ppm
Heavy Metals (Pb)	≤ 10 ppm
Bulk Density	≥ 0.30 g/ml
Particle Size	95% pass through 80 mesh
Microbiological Standards	
Total Plate Count	≤ 1000 CFU/g
Yeast & Mold	≤ 100 CFU/g
E. Coli	Negative

3.Applications

Nutritional supplements – vitamin B2 fortification

Functional foods and beverages

Pharmaceutical preparations – tablets, capsules, powders

Animal nutrition and feed additives

Energy and wellness formulations

4.Packaging and Storage

Packaging: 25kg drums

Shelf Life: 24 months when properly stored

Storage Conditions: Store in a cool, dry place, away from light and moisture