

SPECIFICATION

Product Name: Vitamin B2 (Riboflavin) 80% Feed Grade
Chemical Formula: $C_{17}H_{20}N_4O_6$
CAS Number: 83-88-5
Molecular Weight: 376.36 g/mol
Appearance: Yellow Colour Powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification
Identification		Conform	Solution of 1mg in 100ml of water is pale greenish yellow by transmitted light, and has an intense yellowish-green fluorescence that disappears upon the addition of mineral acids or alkalis.
Specific Rotation		- 118°	-115° ~ -135°
Loss on drying	%	1.2	≤1.5%
Residue on ignition	%	0.2	≤0.3%
Lumiflavin		0.009	440nm absorbance ≤0.025
Assay (on dry basis)	%	80.16	Not less than 80%
Conclusion	Complies with the standards		

Physical Properties

- Solubility: Slightly soluble in water.
- Insoluble in most organic solvents.

Shelf Life & Storage

- Shelf Life: 3 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a cool, dry, and well-ventilated place. Keep away from direct sunlight and strong light (riboflavin is light-sensitive). Protect from moisture and humidity. Keep containers tightly closed after opening. Store in original sealed packaging.

Applications

- Use: Nutritional vitamin supplement in compound feed and premixes. Used in mineral-vitamin premix formulations.
- Dosage: depends on species, age, and total diet formulation. Below are typical recommended inclusion levels (calculated as pure riboflavin requirement, adjust for 80% product).

Packaging

- Standard Packing: 20 kg woven PP bags with inner liner or as per customer requirement.
- Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.

* Specifications are based on the manufacturer's provided specifications.