# Vitamin B2

*$C_{17}H_{20}N_4O_6$ · CAS 83-88-5 · Riboflavin, crystalline*

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

| CHEMICAL FORM | FORMULA | CAS | PRIMARY ASSAY |
|---|---|---|---|
| Riboflavin, crystalline | $C_{17}H_{20}N_4O_6$ | 83-88-5 | 98.0–102.0% (HPLC) |
| METHOD | MINIMUM ORDER | LEAD TIME | STANDARD PACK |
| HPLC | 1 kg | 1–7 days | 1 kg foil pouch · 25 kg fiber drum |

## DESCRIPTION

Riboflavin specified at 98.0–102.0% on the dried basis, for capsules, tablets and powder blends where the colour, the crystal form and the light sensitivity decide the grade.

## SPECIFICATION

| PARAMETER | SPECIFICATION | METHOD / NOTE |
|---|---|---|
| Assay (dried basis) | 98.0–102.0% (HPLC) | As stated |
| Appearance | Yellow to orange-yellow crystalline powder | As stated |
| Identification | IR and UV conform | As stated |
| Loss on drying | ≤1.5% | As stated |
| Residue on ignition | ≤0.3% | 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 |
| Particle size | ≥95% through 80 mesh | As stated |
| Marker set | Riboflavin (98.0–102.0%, dried basis) | Identity |
| Solubility | Slightly soluble in water; the solution is yellow-green with strong yellow-green fluorescence. | Matrix dependent |

## APPLICATIONS

- Capsules and tablets
- Powder sticks and drink mixes
- Gummies and chews
- Functional beverages

## AVAILABLE FORMS

- Crystalline powder, 80 mesh
- Milled to 100 mesh on request
- Granulated 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.

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