

# Vitamin B2 (Riboflavin)

INCI Name: Riboflavin

CAS Numbers: 83-88-5

## Description:

Riboflavin, also known as Vitamin B<sub>2</sub> is an easily absorbed colored micronutrient with a key role in maintaining health in humans and animals. Riboflavin is yellow or yellow-orange in color and in addition to being used as a food coloring, it is also used to fortify some foods. It is used in baby foods, breakfast cereals, pastas, sauces, processed cheese, fruit drinks, vitamin-enriched milk products, and some energy drinks.



## Technical Data:

### CHARACTERISTICS

Appearance	Yellow orange needle-like crystalline powder, oven dried
Solubility	Very slightly soluble in water; practically insoluble in alcohol, chloroform, and ether; a saturated aqueous solution of riboflavin is neutral
Stability	Stable when stored in unopened containers at room temperature away from heat, light, and moisture

### SPECIFICATIONS

Carrier/Other Ingredients	N/A	Heavy Metals	≤ 10 Parts per million
Identification	Positive	Arsenic	≤ 1 Parts per million
Particle Size	100.0% Through 60 mesh	Cadmium	≤ 1 Part per million
Bulk Density	Ca 250 - 300 g/l	Lead	≤ 0.1 Parts per million
Odor	Slight odor	Mercury	≤ 0.1 Part per million
Specific Rotation	-115.0° to -135.0°		
Melting Point	~ 290°C		
Loss on Drying	≤ 1.5%		
Residue on Ignition	≤ 0.3%		
Assay	98.0% ~ 102.0%, Dry basis		
Lumiflavin	≤ 0.025 at 440nm		

### MICROBIOLOGY SPECIFICATIONS

Total Plate Count	≤ 1000 cfu/g
Yeast & Mold	≤ 100 cfu/g
Coliforms	≤ 10 cfu/g
E. Coli	Negative
Salmonella	Negative
Staph. Aureus	Negative

## Applications:

Used to prevent and treat riboflavin deficiency and related conditions. It has been shown to be effective in preventing migraine headaches and in preventing cataracts.



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