



# American International Chemical, Inc.

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## SPECIFICATION SHEET

### RIBOFLAVIN (VITAMIN B2) USP FCC

Code No.	SCN No.	CAS No.	Effective Date	Product Manager	Rev. No.	Approved By
RIBAUP	1439	83-88-5	June 29, 2011	LR	No. 2	MPR

<b>CHARACTERISTICS:</b>	Yellow to orange-yellow crystalline powder. When dry, not affected by difused light, but when in solution, light induces deterioration. Melts approximately 280°C with decomposition. Slightly soluble in water, less soluble in alcohol than water, and insoluble in ether and chloroform. Very soluble in alkali solutions.
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<b>MOLECULAR FORMULA:</b>	C <sub>17</sub> H <sub>20</sub> N <sub>4</sub> O <sub>6</sub>
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<b>MOLECULAR WEIGHT:</b>	376.36
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<b>SPECIFICATIONS:</b>	Assay (dried basis)	98.0-102.0%
	Identification	To pass test
	Specific rotation $[\alpha]_{25}^{\text{D}}$ on a dry basis (5mg per ml in 0.05M NaOH solution)	Between -115° and -135°
	Loss on drying	Not more than 1.5%
	Residue on ignition	Not more than 0.3%
	Limit of lumiflavin	Not more than 0.025
	Residual solvents	Meets requirements

<b>STOCKING POINTS:</b>	Farmingdale, NJ
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<b>PACKAGING:</b>	25 kg carton; 27 cartons per pallet
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<b>APPLICATIONS:</b>	Nutrient in pharmaceuticals and nutritional food supplements.
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<b>OTHER:</b>	Enzyme cofactor vitamin.
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