



# American International Chemical, Inc.

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## SPECIFICATION SHEET

### GLUCONO-DELTA-LACTONE POWDER (GdL)

Code No.	SCN No.	CAS No.	Effective Date	Product Manager	Rev. No.	Approved By
GDLJFP	2250	90-80-2	September 20, 2011	JGP	Original	RVK

<b>CHARACTERISTICS:</b>	Fine white crystalline powder with slightly sweet taste. It is freely soluble in water and sparingly soluble in ethanol.
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<b>MOLECULAR WEIGHT:</b>	178.15
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<b>SPECIFICATIONS:</b>	Identification	Meets requirements
	Assay	99.0-100.5%
	Water	0.15% max
	Lead	Less than 2 mg/kg
	Heavy metals	Less than 10 mg/kg
	Reducing substances	0.5% max
	Chloride	50 mg/kg max
	Sodium	30 mg/kg max
	Ash	Less than 0.10%

<b>STOCKING:</b>	TBA: Consult office
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<b>PACKAGING:</b>	25 kg paper bags with polyethylene inliner
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<b>APPLICATIONS:</b>	Food: including but not limited to tofu, yogurt, cheese, dressings, sauces, sausages, shrimps and prepared salads. Also as a leavening agent in some bakery applications.
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<b>OTHER:</b>	Glucono-1,5-lactone or GdL is a neutral cyclic ester of gluconic acid formed by the removal of water. It is commercially produced by an aerobic oxidative fermentation of glucose. GdL is easily biodegradable in a static test within two days. Physiologically D-gluconic acid or GdL is an important intermediate product of the carbohydrate metabolism.
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