



# MANGANESE GLYCINATE



*Premium Chelated Mineral for Animal Nutrition*

SUPERIOR BIOAVAILABILITY | OPTIMAL PERFORMANCE

## Introduction

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Manganese Glycinate represents the pinnacle of chelated mineral technology, engineered by Jainex Speciality Chemical to deliver unparalleled bioavailability and performance in animal nutrition. This premium-grade glycinate complex ensures optimal manganese absorption, bypassing common antagonists in the gastrointestinal tract.

Manufactured through our proprietary chelation process, Manganese Glycinate maintains exceptional stability across diverse pH environments, ensuring that the manganese remains protected until reaching the absorption sites in the intestine.

## Key Benefits

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- ✓ **Enhanced Bioavailability:** Superior absorption rates compared to inorganic manganese sources.
- ✓ **Superior Stability:** Resistant to pH fluctuations and antagonist interactions.
- ✓ **Optimal Performance:** Proven efficacy in promoting growth, immune function, and reproductive health.
- ✓ **Reduced Environmental Impact:** Lower excretion rates due to enhanced absorption.
- ✓ **Versatile Application:** Suitable for aquaculture, livestock, swine, and poultry operations.
- ✓ **Consistent Quality:** Manufactured under stringent quality control protocols.

## Technical Specifications

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<b>Chemical Formula</b>	C <sub>4</sub> H <sub>8</sub> MnN <sub>2</sub> O <sub>4</sub>
<b>Molecular Weight</b>	202.06 g/mol
<b>Appearance</b>	White Powder
<b>Manganese Content</b>	18% min.
<b>Nitrogen content</b>	4.5 to 5.5 %
<b>Moisture content</b>	5% max.
<b>pH of 2%(w/v) solution</b>	3 to 5.5
<b>Water solubility (2% w/v)</b>	Soluble & solution is clear.

## Applications

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**Aquaculture:** Essential for shrimp and fish growth, shell development, and immune response optimization.

**Livestock:** Critical for bone development, reproductive performance, and overall metabolic function.

**Swine:** Supports optimal growth rates, feed conversion efficiency, and reproductive health.

**Poultry:** Promotes skeletal integrity, feather quality, and eggshell strength.



## Feeding Recommendations

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Animal Category	Manganese Requirement (ppm)	Recommended Inclusion (g/ton)
Broilers (Starter)	60-100	273-455
Broilers (Grower)	50-80	227-364
Layers	50-80	227-364
Turkeys	60-100	273-455
Swine (Starter)	30-50	136-227
Swine (Grower)	20-40	91-182
Swine (Sows)	25-45	114-205
Dairy Cattle	40-60	182-273
Beef Cattle	30-50	136-227
Sheep/Goats	30-50	136-227
Fish	15-25	68-114
Shrimp	20-40	91-182

*Note: These recommendations serve as general guidelines. Specific requirements may vary based on local conditions.*

## Packaging & Storage

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Available in 25 kg multi-layered HDPE bags with inner polyethylene liner. Store in a cool, dry place away from direct sunlight. Shelf life: 24 months from manufacturing date.



# Jainex Speciality Chemical

*Excellence in Chelated Minerals*

## OFFICE ADDRESS

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