



Sodium Molybdate

CAS Number: 10102-40-6
Chemical Formula: $\text{Na}_2\text{MoO}_4 \cdot 2\text{H}_2\text{O}$

Sodium Molybdate is a white or colorless crystalline powder, highly soluble in water, with a solubility of 76 g/100 mL at 25 °C. It is valued for its role as a source of molybdenum and as a corrosion inhibitor in various industrial systems, particularly those requiring low toxicity and high efficiency.

KEY FEATURES

- High assay content ($\geq 98.5\%$) for consistent performance
- Low chloride and sulfate levels for system compatibility
- Dual hydration improves stability and solubility
- Effective at low dosage rates as a corrosion inhibitor
- Low toxicity alternative to chromates and nitrites

APPLICATIONS

- Corrosion inhibitor in water treatment and closed-loop cooling systems
- Additive in engine coolants and antifreeze formulations
- Component in oilfield drilling fluids
- Metalworking fluids and lubricants
- Fertilizer micronutrient source (Mo)

TYPICAL PROPERTIES

Parameter	Specification
Appearance	White crystals
Assay (%)	≥ 98.5
Molybdenum as Mo (%)	≥ 39.0
Chloride as Cl (%)	≤ 0.05
Sulfate as SO_4 (%)	≤ 0.05
pH (5% solution)	6.0 – 10.0
Water insolubles (%)	≤ 0.02
Heavy Metals as Pb (%)	≤ 0.01
Phosphate as PO_4 (%)	≤ 0.03



**LIMITED WARRANTY INFORMATION.
PLEASE READ CAREFULLY.**

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This document is subject to revision without notice as new data becomes available.

TECHNICAL SUPPORT
+61294103317
info@chemport.com.au

Level 9 Tower A
821 Pacific Highway
Chatswood NSW 2067
Australia

chemport.com.au

PACKAGING

Available in 25 kg bags.

STORAGE & HANDLING

Store in a dry, well-ventilated area away from moisture and direct sunlight. Keep packaging sealed when not in use to prevent contamination and caking.

SAFETY

Before use, consult the Safety Data Sheet (SDS) for guidance on proper handling, protective equipment, and first aid procedures.