



Indroduction

Sodium molybdate is a chemical compound with the formula Na_2MoO_4 . It is a sodium salt of molybdic acid and contains sodium cations (Na^+) and molybdate anions. Sodium molybdate is a versatile compound with several important applications:



Corrosion Inhibitor	Sodium molybdate is often used as a corrosion inhibitor in various industries, including the water treatment and metalworking sectors. It can help protect metal surfaces from corrosion, especially in cooling water systems and pipelines.
Agriculture	Sodium molybdate is an essential source of molybdenum, which is a micronutrient required for healthy plant growth. It is used as a molybdenum fertilizer in agriculture to correct molybdenum deficiencies in soils, promoting better crop yields and preventing deficiencies in plants.
Analytical Chemistry	Sodium molybdate is employed in analytical chemistry as a reagent for the detection and quantification of certain ions, such as phosphate, arsenate, and silicate. It forms distinctive colored complexes with these ions, allowing for their analysis using spectrophotometric methods.
Catalysis	Sodium molybdate is used as a catalyst in various chemical reactions, particularly in organic synthesis. It is known for its ability to catalyze the oxidation of organic compounds, making it valuable in the production of chemicals and pharmaceuticals.
Metal Finishing	In the metal finishing industry, sodium molybdate is used as an additive in electroplating and metal coating processes. It can enhance the performance and durability of metal coatings.

Biological Research	Sodium molybdate is sometimes used in biological and biochemical research as a component of certain culture media and reagents. Molybdenum is essential for the growth of certain bacteria, and sodium molybdate is used to provide this nutrient in microbiological studies.
Lubricants	Sodium molybdate can be added to lubricants and greases to improve their lubrication properties, especially under high-temperature and high-pressure conditions.

Chemical formula	Na ₂ MoO ₄ · 2H ₂ O
CAS No.	10102-40-6
Molecular Weight	241.95

APPEARANCE

Powder	White Powder
--------	--------------

PROPERTIES

Soluble in Water

STANDARD SPECIFICATION

No.	Parameters	Our Standard
1	Mo Percentage	39.00 % Min
2	MoO ₃ Content	59.00 % max

3	Loss on Drying	14.50 % max
4	Water Insoluble	200 ppm Max
5	PH of 5% Solution	7.5 to 9

PACKING

1	HM lined HDPE bags of 25/50 kgs.
2	As per customer's requirement in bulk bag up to 1 MT in big sack.

APPLICATION

1	Prevention of galvanic corrosion
2	It's less toxic and less aggressive oxidant properties towards organic additives make it ideal for use in corrosion inhibiting formulations for central heating system and motor engine coolants
3	Treatment of whiptail in broccoli and cauliflower
4	Essential trace element in plants and enzymes which catalyze nitrogen fixation and nitrate reduction
5	Molybdate based pigments are used for stable color formation and corrosion inhibition with colors ranging from bright red-orange to red-yellow and are used in paints, inks, plastic, rubber and ceramics