



# Product Specification

## Product Name: MOLYBDENUM TRIOXIDE AR

Alternate Name(s) Molybdenum acid hydride; molybdic oxide; molybdenum (VI) oxide;  
Description molybdenum anhydride; molybdic anhydride.  
White powder at room temperature and becomes yellow at elevated temperatures.

### Properties

Chemical Formula:  $\text{MoO}_3$   
Molecular Weight: 143.94

Product Code: MA093  
CAS No. 1313-27-5

### General Information:

Very soluble in excess alkali with formation of molybdates. Forms polymers with acids and bases. May be harmful if swallowed. Non combustible material.

### Quality Specification

Assay: 99.5% min.

### Specific Properties and Impurities [Typical levels]:

Insoluble in dilute ammonium hydroxide	$\leq 0.01\%$
Chloride (Cl)	$\leq 0.002\%$
Nitrate ( $\text{NO}_3$ )	Passes test
Arsenate, phosphate and silicate (as $\text{SiO}_2$ )	$\leq 0.001\%$
Phosphate ( $\text{PO}_4$ )	$\leq 0.0005\%$
Sulfate ( $\text{SO}_4$ )	$\leq 0.02\%$
Ammonium ( $\text{NH}_4$ )	$\leq 0.002\%$
Heavy metals (as Pb)	$\leq 0.005\%$

### Hazard and Safety Data

UN Group:	None Allocated
Class:	None Allocated
UN Number:	None Allocated
Hazchem code:	None Allocated
CS MSDS Code:	953G44CR
Poison schedule:	Not Scheduled
Emergency Procedure Guide No.:	N/A

CONFORMS TO ACS

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