Specification Sheet

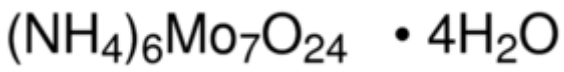
09878 Sigma-Aldrich

Ammonium molybdate tetrahydrate

BioUltra, ≥99.0% (T)

Synonym: **Ammonium heptamolybdate tetrahydrate, Molybdic acid ammonium salt tetrahydrate**

- **CAS Number** 12054-85-2
- **Linear Formula** $(NH_4)_6Mo_7O_{24} \cdot 4H_2O$
- **Molecular Weight** 1235.86
- **EC Number** 234-320-9
- **MDL number** MFCD00167059
- **PubChem Substance ID** 329748853
- **NACRES** NA.26



SKU-Pack Size	Availability	Pack Size	Price (SGD)	Quantity
09878-25G	Available to ship on 14.04.2021 - FROM	25 g		0
09878-100G	Available to ship on 14.04.2021 - FROM	100 g		0
09878-500G	Estimated to ship on 28.04.2021 - FROM	500 g		0

Properties

Related Categories	Biochemicals and Reagents, Catalysis and Inorganic Chemistry, Chemical Synthesis, Molybdenum Catalysts, Nanodisc Reagents for Membrane Protein Research,
product line	**BioUltra**
assay	**≥99.0% (T)**
reaction suitability	**reagent type: catalyst** **core: molybdenum**
impurities	**insoluble matter, passes filter test**

pH	**4.0-5.5 (25 °C, 0.05 M in H_2O)**
solubility	**H_2O: 0.05 M at 20 °C, clear, colorless**
density	**2.498 g/mL at 25 °C (lit.)**
anion traces	**chloride (Cl^-): ≤10 mg/kg**
	nitrate (NO_3^-): ≤20 mg/kg
	phosphate, silicate, arsenate (as PO_4^{3-}): ≤10 mg/kg
	sulfate (SO_4^{2-}): ≤100 mg/kg
cation traces	**Ca: ≤10 mg/kg**
	Cd: ≤5 mg/kg
	Co: ≤5 mg/kg
	Cr: ≤5 mg/kg
	Cu: ≤5 mg/kg
	Fe: ≤5 mg/kg
	K: ≤50 mg/kg
	Mg: ≤5 mg/kg
	Mn: ≤5 mg/kg
	Na: ≤50 mg/kg
	Ni: ≤5 mg/kg
	Pb: ≤5 mg/kg

	Zn: ≤5 mg/kg
absorption	**cut-off at 360 nm in H_2O at 0.05 M**
storage temp.	**room temp**
SMILES string	**N.N.N.N.N.N.O.O.O.O.O=[Mo](=O)=O.O=[Mo](=O)=O.O=[Mo](=O)=O.O=[Mo](=O)=O.O[Mo](O)(=O)=O.O[Mo](O)(=O)=O.O[Mo](O)(=O)=O**
InChI	**1S/7Mo.6H3N.10H2O.18O/h;;;;;;;6*1H3;10*1H2;;;;;;;;;;;;;;;;;;;;/q;;;;3*+2;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;/p-6**
InChI key	**FIXLYHHVMHXSCP-UHFFFAOYSA-H**

Show Fewer Properties

Description

Other Notes

For the determination of phosphorus[1]