

PHOSPHOMOLYBDIC ACID AR/ACS

PRODUCT CODE	609575
SYNONYMS	dodeca-Molybdophosphoric acid hydrate AR
C.I. NO.	--
CASR NO.	(51429-74-4)
ATOMIC OR MOLECULAR FORMULA	$H_3PO_4 \cdot 12MoO_3 \cdot xH_2O$
ATOMIC OR MOLECULAR WEIGHT	1825.25 (anhyd.)
PROPERTIES	Strong oxidizing agent in aqueous solution, strong acid in free acid form.
PARAMETER	LIMIT
Description	Chrome yellow to orange yellow crystalline powder
Solubility	5% Solution in hot water is clear and bright.
MAXIMUM LIMIT OF IMPURITIES	
Loss on drying (at 110°C)	21.0 – 23.0%
Insoluble matter	0.01%
Ammonium (NH ₄)	0.01%
Chloride (Cl)	0.02%
Sulphate (SO ₄)	0.025%
Calcium (Ca)	0.02%
Iron (Fe)	0.005%
Heavy metals (as Pb)	0.005%
Lead (Pb)	0.003%

Note(s) : Assay (if applicable) method mentioned.

DANGER

Hazard statements : May intensify fire; oxidizer. May cause damage to organs through prolonged or repeated exposure. Causes severe skin burns and eye damage

Precautionary statements

Prevention : Wash thoroughly after handling. Take any precaution to avoid mixing with combustible or incompatible materials. Do not breathe dust/fume/gas/mist/vapours/spray. Wear protective gloves/clothing and eye/face protection. Keep away from heat. Do not breathe dust or mist.

Response : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If on skin or hair: remove/take off immediately all contaminated clothing. Rinse with water/shower. Absorb spillage to prevent material damage. Get medical advice/attention if you feel unwell. Specific treatment: refer to Label or MSDS..

Disposal: The quantities greater than 10g should be dissolved in water and transferred to heavy metal waste drums for collection by specialist disposal company.

Hazard Pictogram(s) :-



IMDG Code : 5.1 (8)/II

UN No. : 3084

IATA : 5.1 (8)

Replace Date 06-Jan-2026