



>>Entry Name: Magnesium phosphide (Mg_3P_2), 8CI

Synonym(s): Magnaphos. Magtoxin

CAS Registry Number: 12057-74-8

Mg_3P_2

Molecular Formula: Mg_3P_2

Molecular Weight: 134.862

Accurate Mass: 133.90265

Percentage Composition: Mg 54.07%; P 45.93%

Source/Synthesis: Prepd. by reaction of Mg and P in a sealed tube at 400°

Biological Use/Importance: Insecticide and rodenticide

Physical Description: Moisture sensitive bright yellow cubic cryst.

Hazard & Toxicity: Dissolves in H_2O with evolution of PH_3 . LD_{50} (rat, orl) 11.2 mg/kg

References:

Stackelberg, M.V. *et al.*, *Z. Phys. Chem., Abt. B*, 1933, **22**, 305, (*cryst struct*)

Taki, T., *Phys. Status Solidi B*, 1978, **86**, K147, (*P-31 nmr*)

Pesticide Manual, 12th edn., 2000, No. 616

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, MAI000