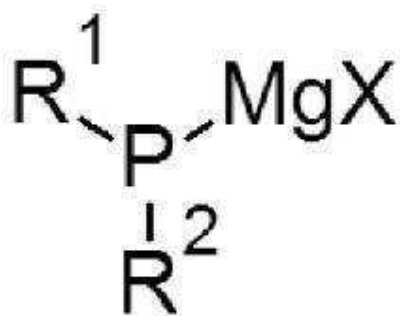


**ORGANIC MAGNESIUM PHOSPHIDE AND MANUFACTURING
METHOD THEREOF, ORGANIC MAGNESIUM PHOSPHIDE COMPLEX
AND MANUFACTURING METHOD THEREOF, AND
MANUFACTURING METHOD OF ORGANIC PHOSPHORUS
COMPOUND USING SAID PHOSPHIDE**

Abstract

An object is to provide a new organic magnesium phosphide characterized by phosphorus-magnesium bond, and a manufacturing method thereof, as well as a new organic magnesium phosphide complex and a manufacturing method thereof. Another object is to provide a new manufacturing method of organic phosphorus compound using such organic magnesium phosphide or organic magnesium phosphide complex. As a means for solving the problems, an organic magnesium phosphide expressed by Formula (1) below, an organic magnesium phosphide complex expressed by Formula (9) below, and a manufacturing method of organic phosphorus compound characterized in that any such reagent is reacted with an electrophile, are provided:

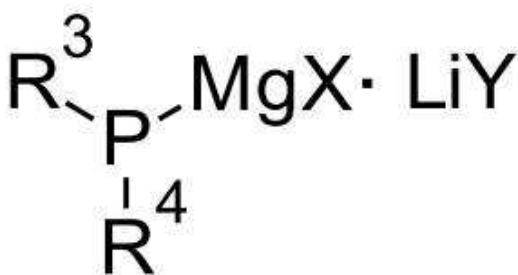
[Chem 1]



(1)

(In the formula, R^1 and R^2 are each independently an aliphatic group, heteroaliphatic group, alicyclic group, or heterocyclic group, and X is chlorine, bromine, or iodine.)

[Chem 2]



(9)

(In the formula, R^3 and R^4 are each independently an aliphatic group, heteroaliphatic group, aromatic group, alicyclic group, or heterocyclic group, and X and Y are each independently chlorine, bromine, or iodine.)

[No Figure]