

Reaction of 3,4-dichloro-5-methoxyfuran-2(5H)-one with 1,2-organylbis(diphenylphosphines)

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Abstract

The reactions of 3,4-dichloro-5-methoxyfuran-2(5H)-one with 1,2-ethylenebis(diphenylphosphine) and 4,5-bis(diphenylphosphinyl)-2-phenylpyridazin-3(2H)-one involve substitution of both chlorine atoms with $\sigma^3\text{-P}$ atoms to form unstable diphosponium bicyclic salts which in the course of the reaction undergo an unusual fragmentation to give finally mono- and tricyclic diphosponiacyclohexane structures.

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