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The Dual Reactivity of 1-(2,4,6-Trialkylphenyl)phospholes Having a Flattened P-Pyramid

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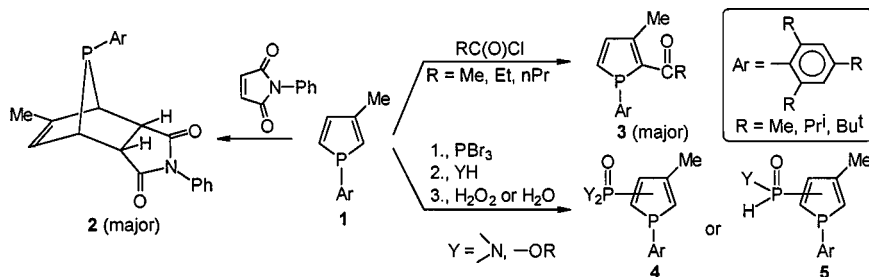
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THE DUAL REACTIVITY OF 1-(2,4,6-TRIALKYLPHENYL)PHOSPHOLES HAVING A FLATTENED P-PYRAMID

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The trialkylphenylphospholes (**1**) with significant aromatic character due to the flattened P-pyramid¹ displayed a dual reactivity; they could be involved in both Diels-Alder reaction with N-phenyl maleimide and in aromatic electrophilic substitutions involving Friedel-Crafts reaction with carboxylic acid chlorides to give products **2** and **3**, respectively. A novel phosphorylation of the phospholes (**1**) through reaction with phosphorus tribromide led to a 2- or a 3-substitution selectively affording products **4** or **5**. The new phospholes were tested as ligands in the hydroformylation of styrene.



SCHEME 1

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