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Basic Al₂O₃ as a Recyclable Reagent for the Protection of Carbonyl Groups with Phenylhydrazine Derivatives and Semicarbazides

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Abstract: Basic alumina is employed as an inorganic basic solid catalyst for the clean and less hazardous protection of carbonyl compounds, such as phenylhydrazones, 2,4-dinitrophenylhydrazones, semicarbazones, and thiosemicarbazones, under solvent-free conditions. The reactions proceed smoothly and require a short reaction time with good to excellent yields, and the alumina used can be recycled.

Key Words: Basic alumina, phenylhydrazine derivatives, semicarbazides, carbonyl compounds, protection, recyclable

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