

The spectral characteristics (^1H , ^{31}P NMR) of compounds **2a,b** are identical to those described in literature.^{10,11,14}

In conclusion, we found for the first time that alkyl vinyl selenides (readily prepared from elemental selenium, acetylene and alkyl bromides¹⁵) are convenient vinylating agents of secondary phosphine chalcogenides, and they can be successfully used for the synthesis of important vinylphosphine chalcogenides (in our case, vinylphosphine oxides).

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