

# Phosphine catalyzed addition of long-chain dialkyl phosphites to electron-deficient alkenes

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## Abstract

© 2020 Taylor & Francis Group, LLC. Conjugate addition of the long chain dialkyl phosphites to electron-deficient alkenes under PBU<sub>3</sub> catalysis afforded the corresponding phosphonates in good yields in a short reaction time. Long chain alkyl groups in the phosphites were well tolerated in this transformation. The products of this reaction are of particular interest as components of lubrication oil composition.

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## Keywords

Long-chain dialkyl phosphites, phospha-Michael addition, phosphine-catalyzed reactions, phosphonates, Pudovik reaction

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