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Recent advances in the application of the heck reaction in the synthesis of heterocyclic compounds: An update

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Abstract

Background: The reaction of aryl halides or vinyl halides with activated alkenes in the presence of Palladium-catalyst along with a base for the formation of the C-C bond is called the Heck reaction. This reaction has been employed extensively in the synthesis of heterocyclic compounds. **Methodology:** We have highlighted these applications in 2010. **Conclusion:** This review aims to cover the recent application of the Heck reaction in the synthesis of heterocyclic compounds during a period from 2010 to 2017. Dedicated to my dearest “TEEDA” on the occasion of her third birthday.

Keywords: Carbon-carbon bond formation, Catalysis, Heck reaction, Heterocyclic compounds, Palladium, Pd