MECHANOSYNTHESIS OF NAPHTHOL MANNICH BASES

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Nowadays, chemical reactions under ball milling have received massive attention in academia and industry due to their specific advantages like shorter reaction time, usually solvent-free operation, better yield, ambient conditions, and often improved selectivity [1]. On the other hand, chiral Mannich bases of 2-naphthol are mostly popular in metal-mediated and ligand-accelerated catalysis of enantioselective carbon–carbon bond formation. Herein, we are pleased to report a one-pot mechanochemical synthesis of naphthol Mannich Bases via a three-component condensation reaction of β -naphthol, *paraformaldehy* and amines under ball milling conditions without using any catalyst and solvent (Scheme 1).



Scheme 1. Mechanosynthesis of naphthol Mannich bases

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This work was supported by the Russian Science Foundation (Grant No. 24-73-00205).