

## عنوان مقاله:

One-pot synthesis of 1-amidoalkyl-2-naphthols catalyzed by nano-graphene oxide under solvent-free conditions

## محل انتشار:

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## خلاصه مقاله:

An efficient and eco-friendly procedure for the synthesis of 1-amidoalkyl-2-naphthols by the one-pot three-component reaction of various aldehydes, 2-naphthol and acetamide catalyzed by nano-graphene oxide under solvent-free conditions has been described. The presented method has several advantages such as high yields, easy purification, mild reaction conditions, easy work-up, survival of different functional groups, and short reaction times. Moreover, nano-graphene oxide is an easily synthesized, cheap, air and moisture stable, heterogeneous and green catalyst. The catalyst could simply be separated and recovered from the reaction mixture and reused in subsequent reactions without significant loss in activity.

## کلمات کلیدی:

Amidoalkyl-2-naphthols, Nano-graphene oxide, One-pot synthesis, Three-component reaction, Solvent-free-1 conditions

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1032143>

