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Synthesis of Novel 1-Aryl-9H-xanthen-9-ones

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Abstract: A novel route for the synthesis of 1-aryl-9H-xanthen-9-ones is reported. This methodology involves the condensation of 2-methylchromone with cinnamaldehydes leading to (E, E)-2-(4-arylbuta-1,3-dien-1-yl)-4H-chromen-4-ones. The final steps involved electrocyclization and oxidation of the latter compounds, in an one-pot synthesis, giving the desired 1-aryl-9H-xanthen-9-ones.

Document Type: Article

Language: English

Author Keywords: 1-arylxanthenes; 2-methylchromone; aldol condensation; electrocyclization; oxidation

KeyWords Plus: BIOLOGICAL-ACTIVITIES; XANTHONES; 2,3-DIARYLXANTHONES; BIOSYNTHESIS; MECHANISM; INSIGHTS; AGENTS

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
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