

## A tin-complexation strategy for use in acylation methods in the preparation of 1,9-diacyldipyrromethanes.

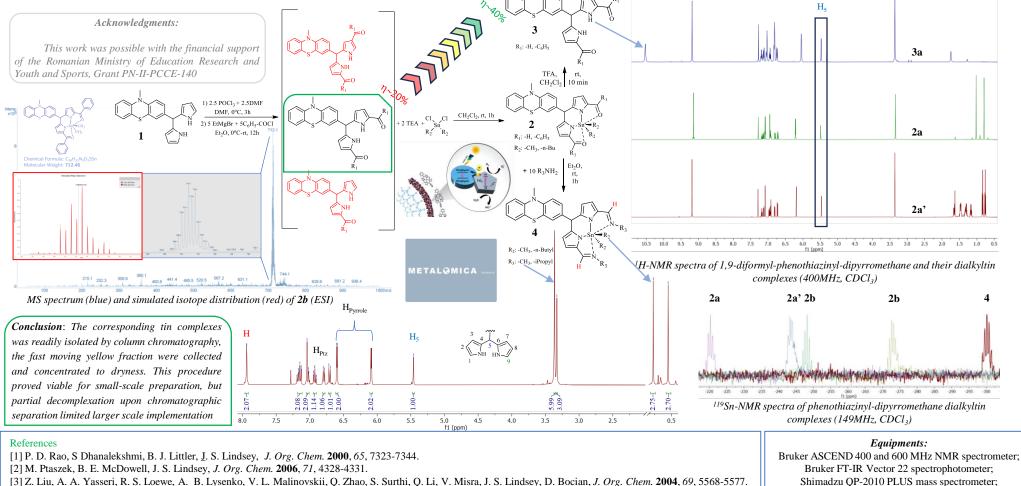


HRMS Thermo Scientific LTQ Orbitrap XL

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*ABSTRACT* Phenothiazinyl-dipyrromethane with Vilsmeier reagent, or with acid chloride typically affords a mixture of 1-, 1,8-, and 1,9-diformyl(or acyl)-dipyrromethanes. Acyl- and formyldipirromethanes typically afford amorphous powder upon attempted crystallization and streak expensively on column chromatography. To facilitate isolation of 1,9diacyl respectively 1,9-diformyl species, the crude mixture is treated with dialkyl-tin-dichloride ( $R_2SnCl_2$ ). The tin-complexation process is selective for 1,9-diformyl(acyl) species, yielding a hydrophobic 1,9-diformyl(acyl)dipyrromethane-dialkyltin complex.



[4] S. H. H. Zaidi, K. Muthukumaran, S. Tamaru, J. S. Lindsey, J. Org. Chem. 2004, 69, 8356-8365

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