SUPPLEMENTARY INFORMATION

METAL-FREE REGIOSELECTIVE SYNTHESIS OF 2-NITRO-3-ARYLIMIDAZO[1,2-a]PYRIDINES via OXIDATIVE AMINATION UNDER AIR USING SILICA SULFURIC ACID AS AN EFFECTIVE HETEROGENEOUS CATALYST

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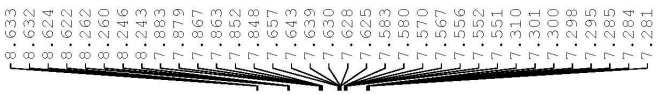
General Information

Reagents were purchased at the highest quality commercially available and used without further purification. Yields refer chromatographically homogeneous materials, unless otherwise stated. Reactions were monitored by thin layer chromatography (TLC) carried out 0.25mm E-Merck silica gel plates (60F-254) using UV light as visualizing agent. Silica gel (100-200mesh) was used for column chromatography. NMR spectra were recorded on Bruker AMX 400 MHz instrument. The following abbreviations were used to explain the multiplets: s = singlet, d = doublet, t = triplet, q = quartet, m = multiplet, b = broad.

General procedure for synthesis of (3aa-cc):

To a mixture of 2-aminopyridine derivative (**2a-c**) (1.0 mmol), β- nitrostyrene (**1a-c**) (1.0 mmol) and SSA (400 mg) was added 3 mL of 1,2-DCE and allowed to heat at reflux (80 ^{o}C) for 4 h. After completion of the reaction as shown by TLC, solvent was evaporated from the reaction mixture. The crude thus obtained was subjected to purification by silica gel column chromatography using 5 to 10% ethyl acetate in hexanes as eluent, afforded the corresponding products.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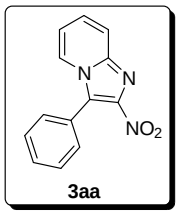
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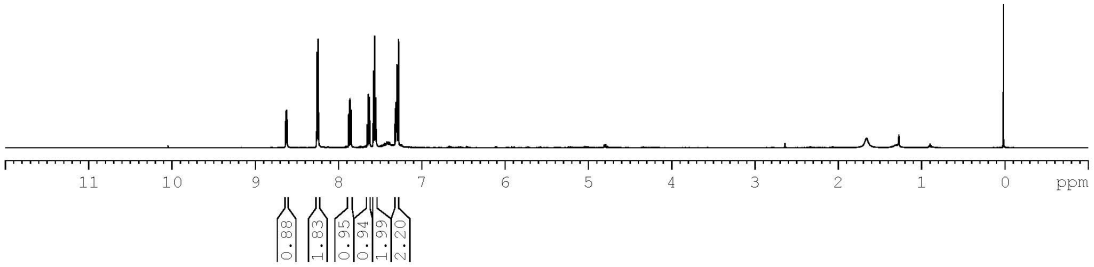
3aa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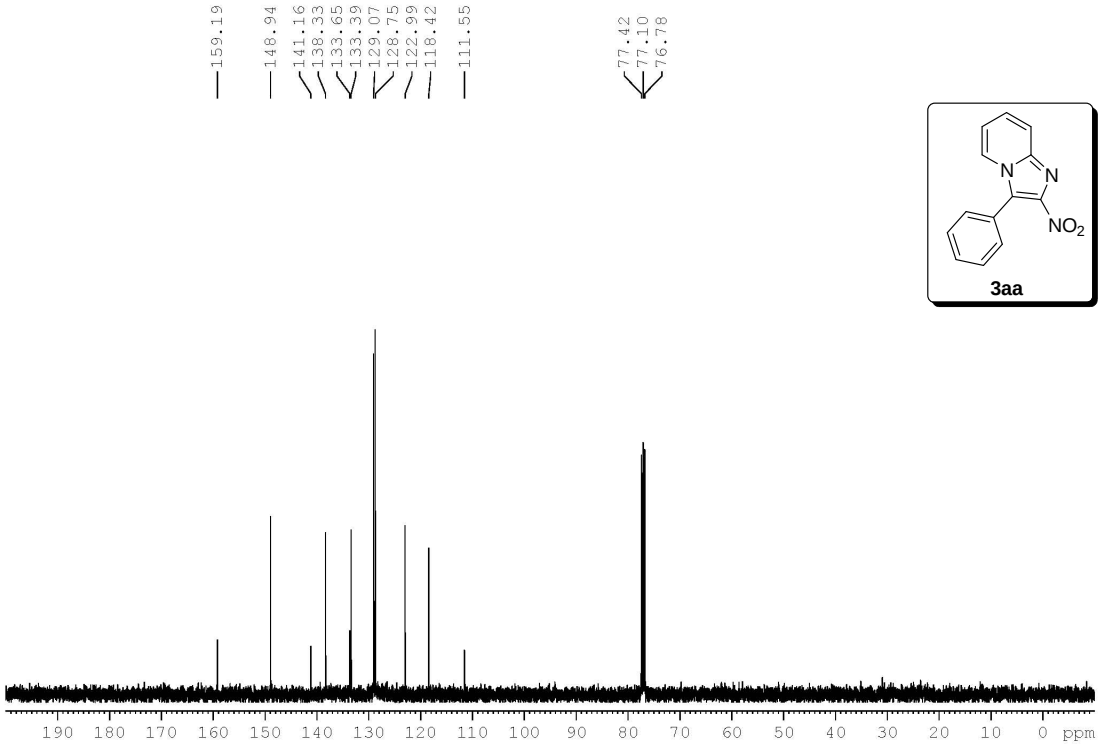
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3aa
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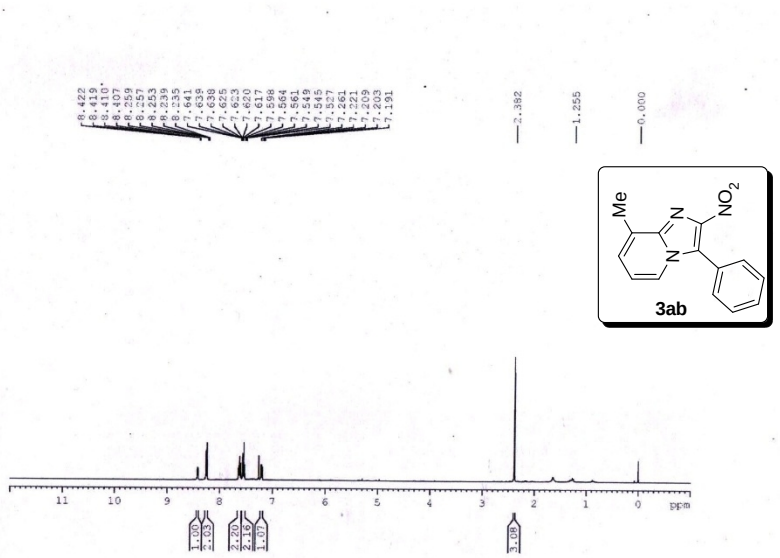
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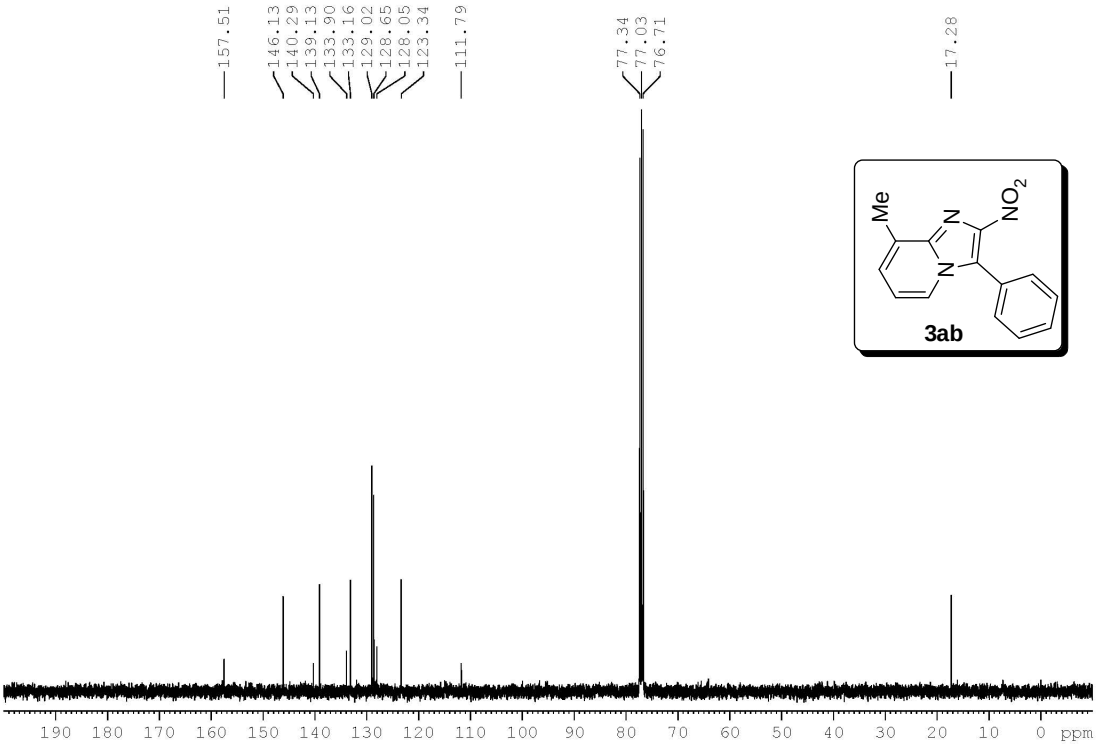
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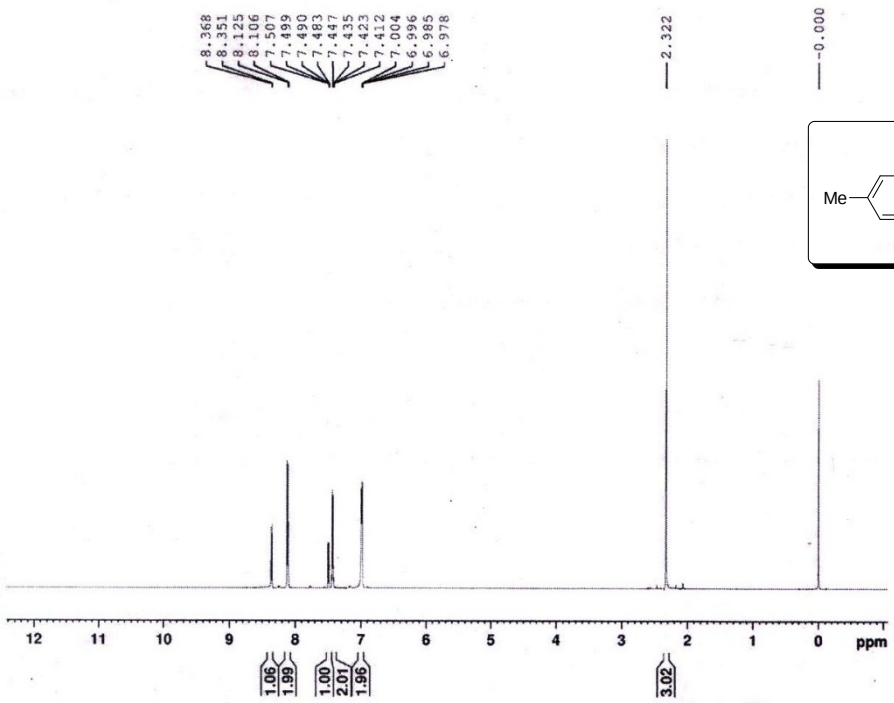
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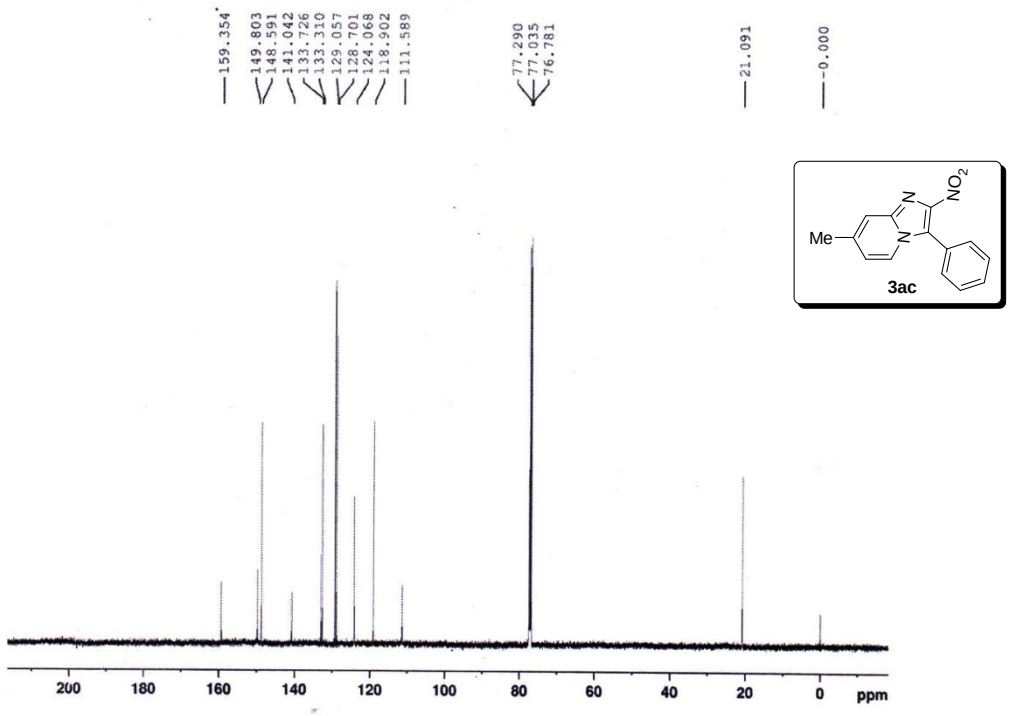
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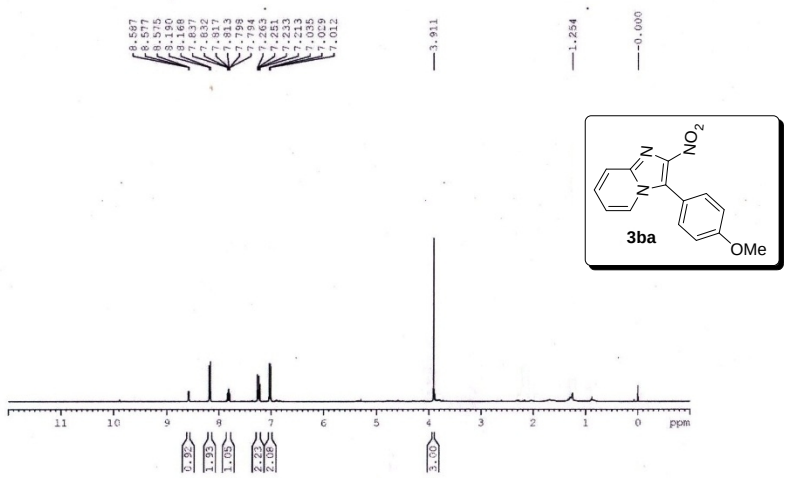
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N
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OMe
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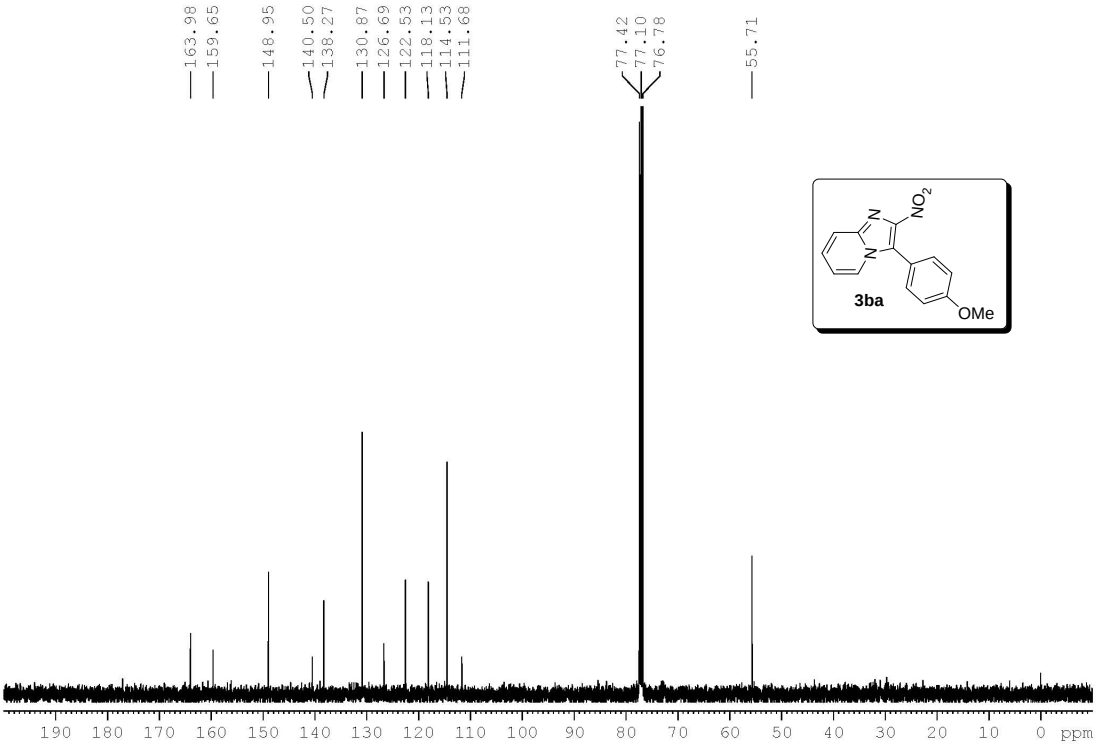
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OMe
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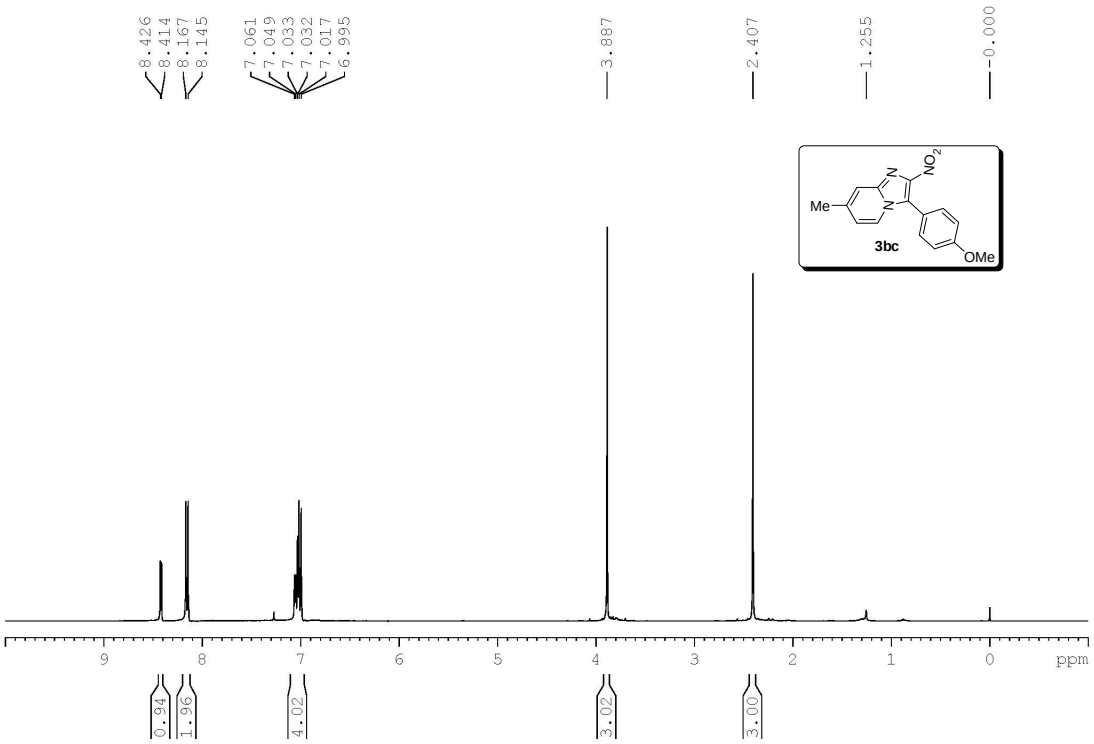
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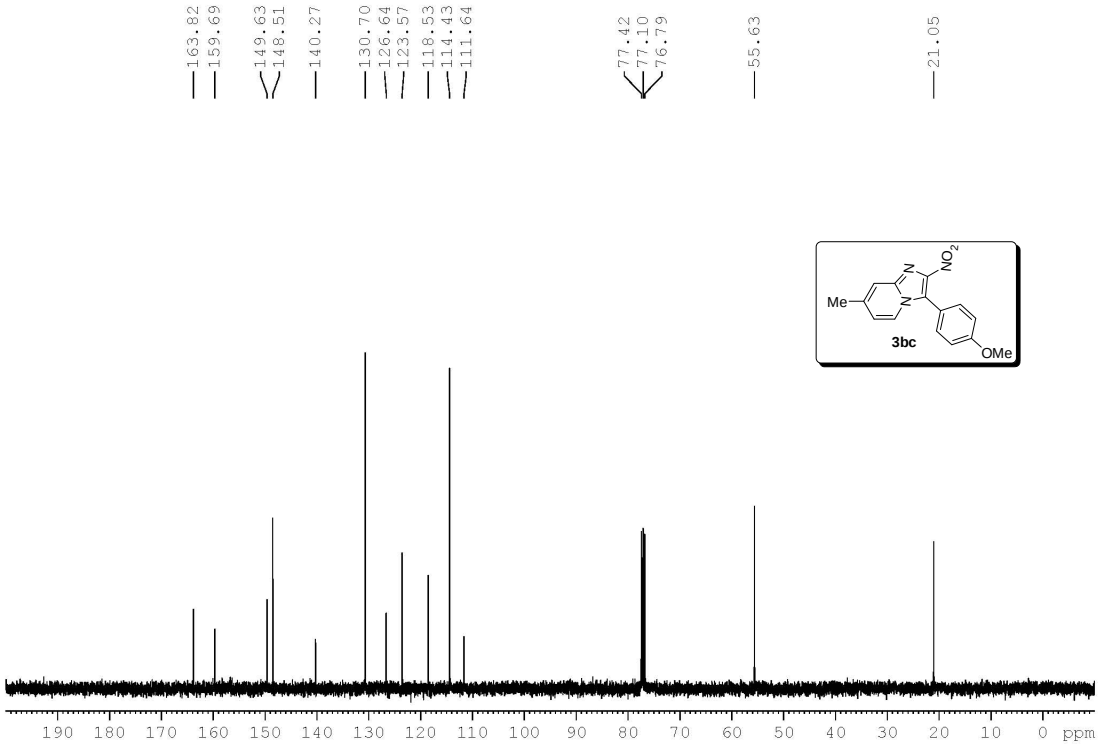
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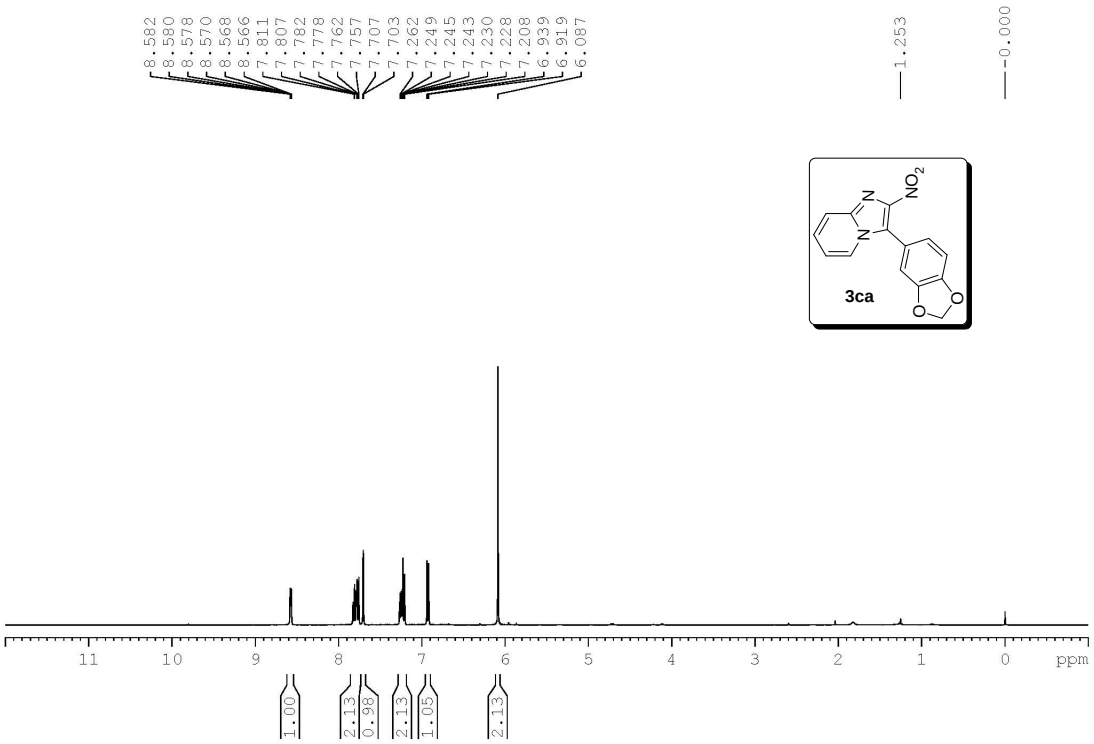
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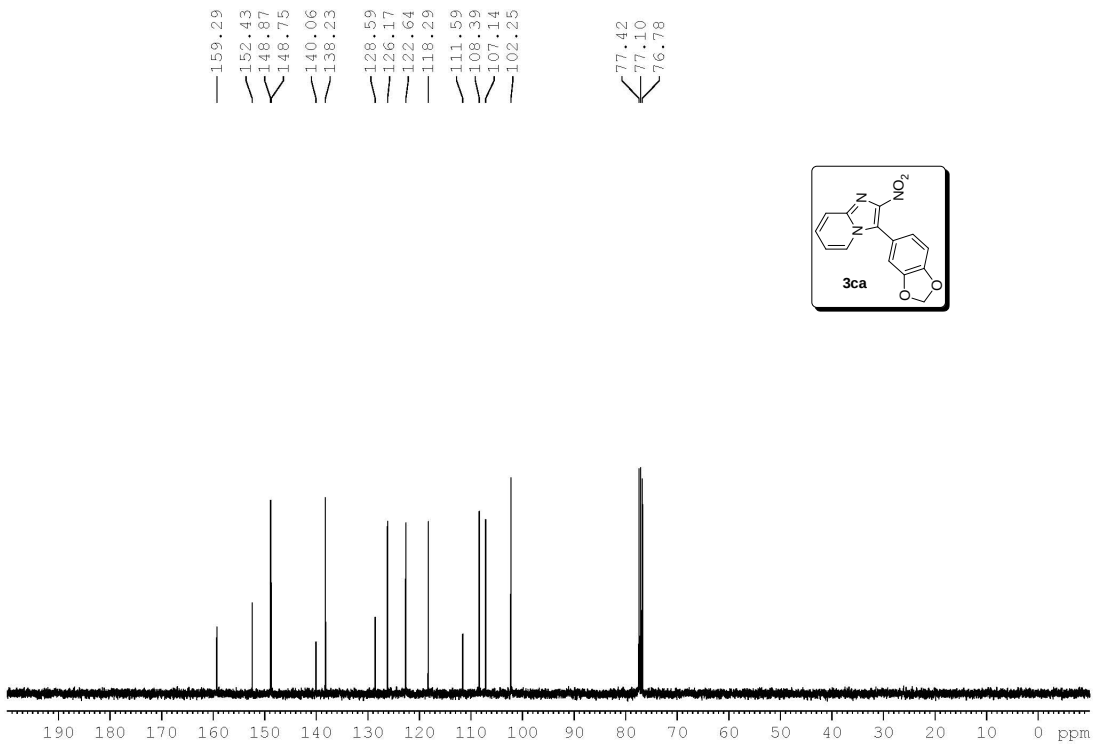
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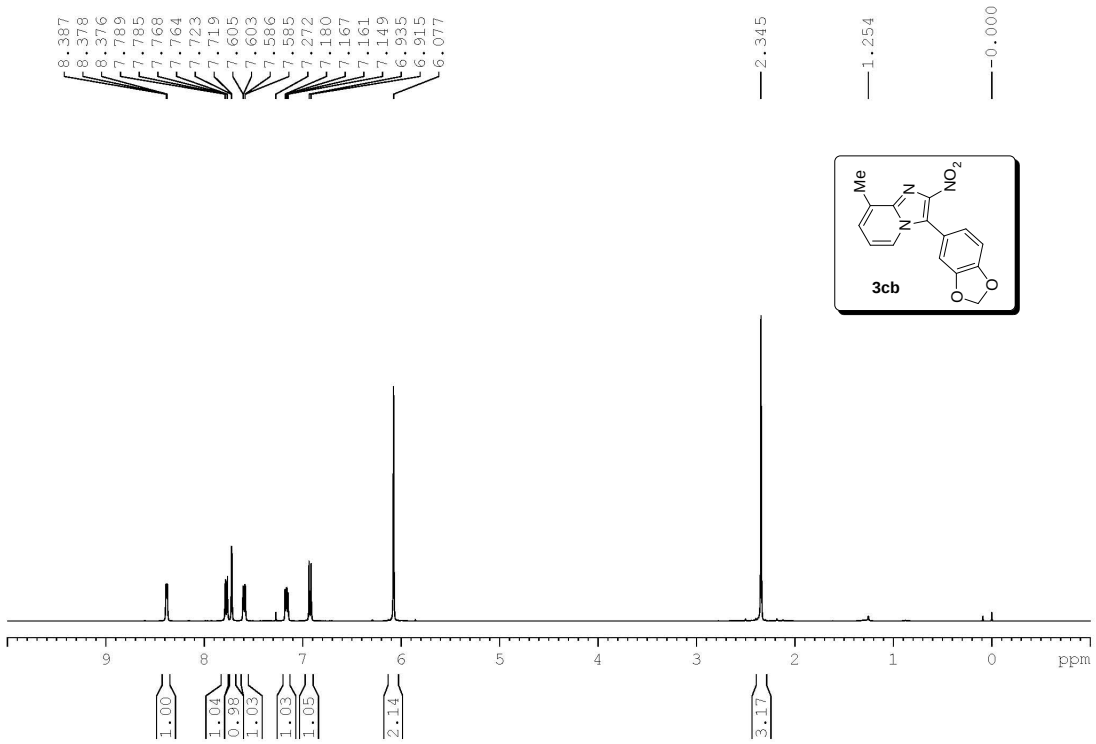
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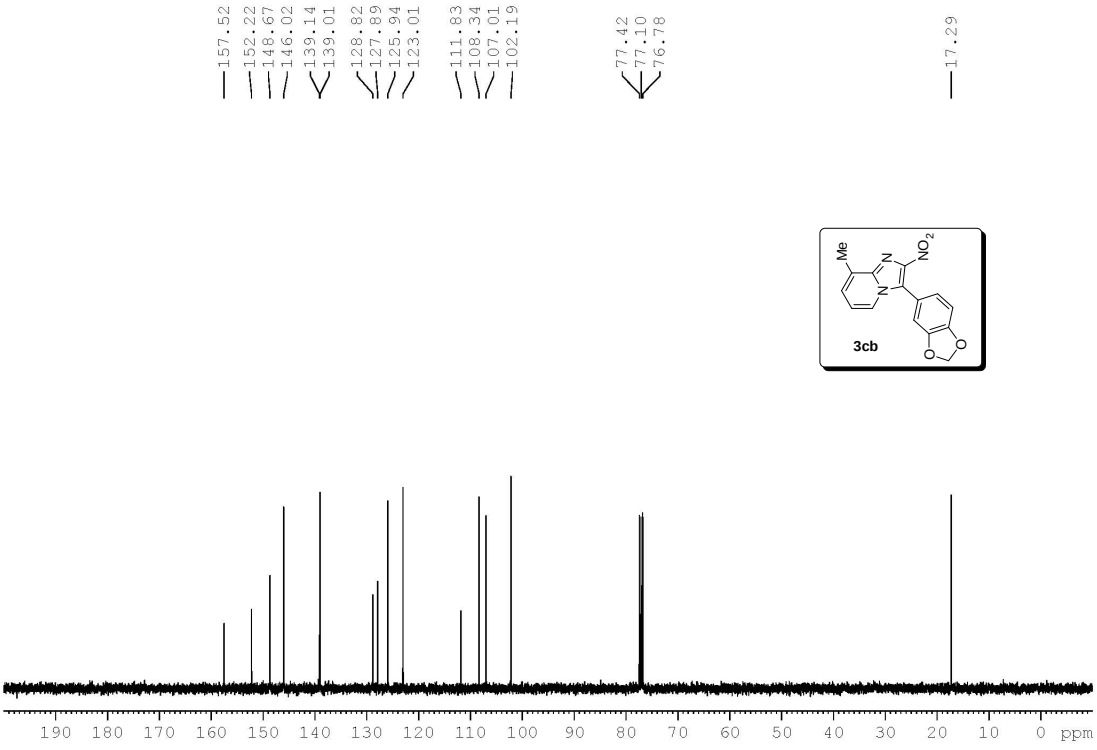
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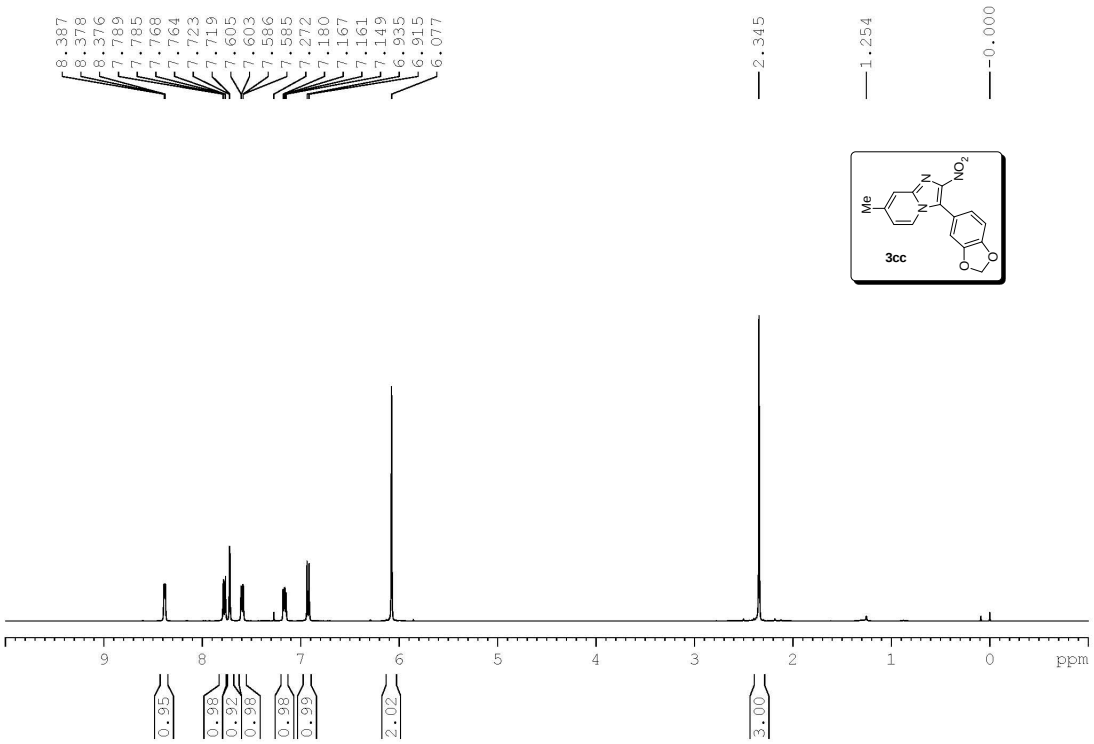
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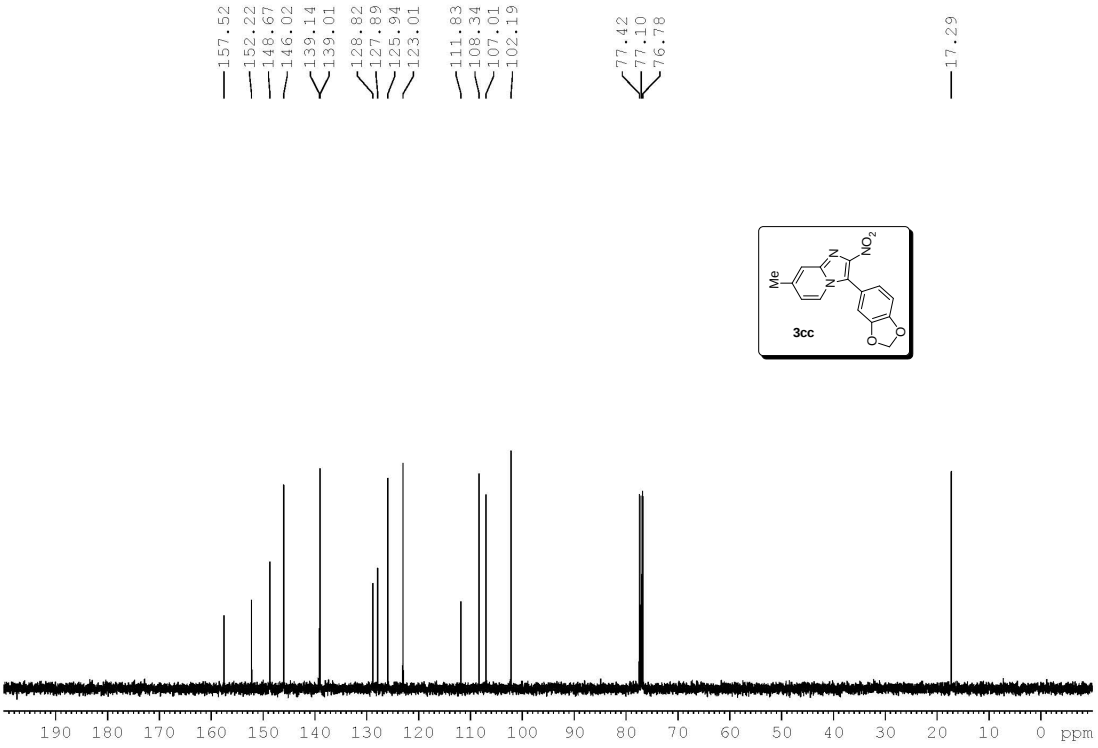
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