Copper-Catalyzed Arylation of Benzothiazoles with Toluene Derivatives: Synthesis of 2-Arylbenzothiazole

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1. $^1$H NMR and $^{13}$C NMR spectra of all compounds

Compound 3a
Compound 3b
Compound 3c
Compound 3d
Compound 3f
Compound 3g
Compound 3h
Compound 3i
Compound 3j
Compound 3k
Compound 3l
Compound 3m
Compound 3n
Compound 3o
Compound 3p
Compound 3q
Compound 4a
Compound 4b
Compound 4c
Compound 4d
Compound 4e
Compound 4f
2. HRMS spectrum for isotope experiment

\[ \text{Formula: } C_{12}^{13}\text{CH}_{10}\text{NS} \]

[M+H]^+
Calculated: 213.0567
Found: 213.0564