Iron-Promoted Construction of Indoles via Intramolecular Oxidative C–N Coupling of 2-Alkenylanilines Using Persulfate

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16 examples

R = Alkyl or Aryl

Appreciable yields up to 80%

One-pot reaction

Cheap reagents

No N-protection

Mild conditions

Good group tolerance

16

K2S2O8 (3.0 equiv)

FeF2 (10 mol%)

Et3N (0.5 equiv)

THF, 70 °C, 16 h

For trim size allow 5 mm respectively. Half tone requirements: 120 lines for body and covers