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Nitromethane as a cyanating reagent for the synthesis of thiocyanates

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Zuo-Hui Wang, Xiao-Ming Ji, Mao-Lin Hu* and Ri-Yuan Tang*

CH₃NO₂ as a cyano source for thiocyanates

$$R-S-S-R + CH_3NO_2 \xrightarrow{I_2/KOAc} R-S-CN$$

- metal-free conditions
- operational simplicity
- broad substrate scope

R = aryl, heteroaryl, benzyl and cyclohexyl

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