

Supporting Information

Inorganic Salts and Tasked Ionic Liquid Multi-Cooperatively Promoted Ru-Catalyzed Ethylene Methoxycarbonylation Using CO₂ as a CO Surrogate

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Contents

1. IR spectra of a mixture of Ru₃(CO)₁₂ and 2-CP
2. ²⁹Si NMR spectrum of the reaction mixture
3. ¹H NMR spectrum of [TmsPmim]Cl
4. ¹H NMR spectrum of BmimMgCl₃
5. ESI-MS spectra of BmimMgCl₃

1. IR spectra of a mixture of Ru₃(CO)₁₂ and 2-CP.

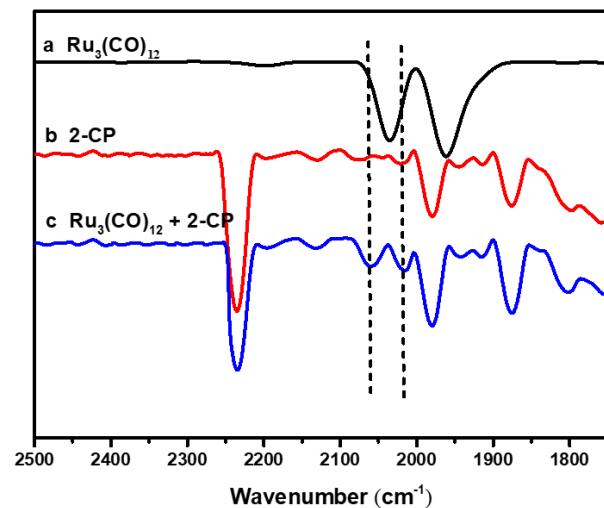


Figure S1. IR spectra of a mixture of Ru₃(CO)₁₂ and 2-CP.

2. ²⁹Si NMR spectrum of the reaction mixture

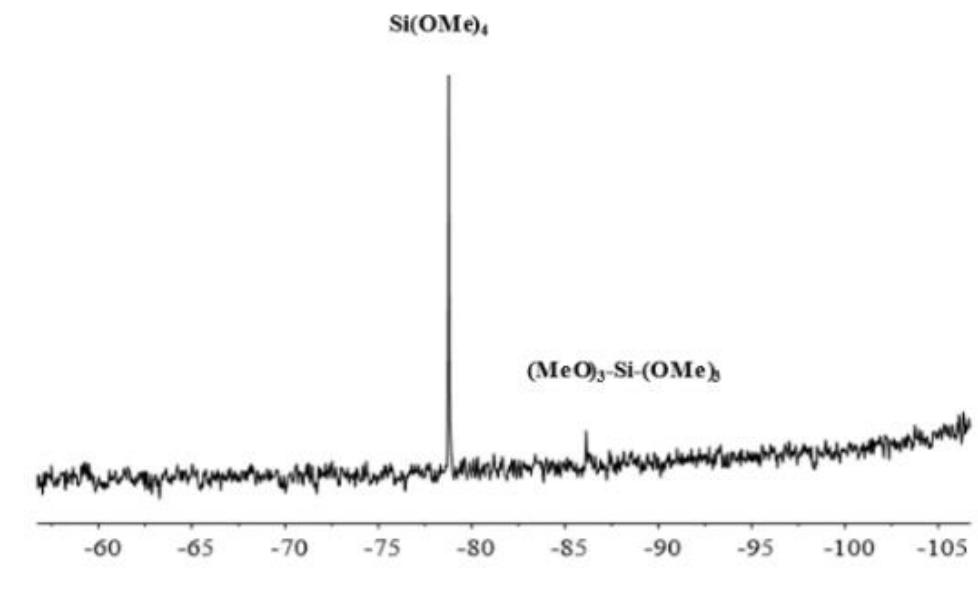


Figure S2 ²⁹Si NMR spectrum of the reaction mixture

3. ^1H NMR spectrum of [TmsPmim]Cl

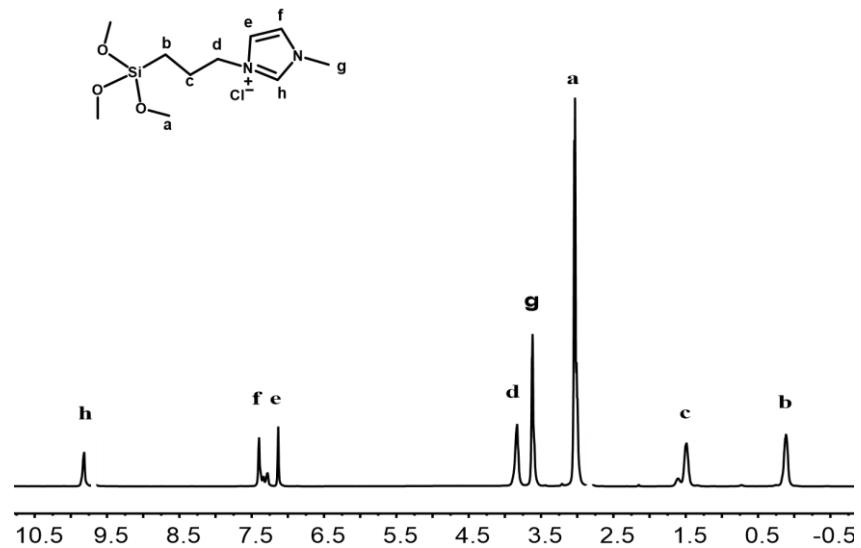


Figure S3. ^1H NMR spectrum of [TmsPmim]Cl

4. ^1H NMR spectrum of BmimMgCl₃

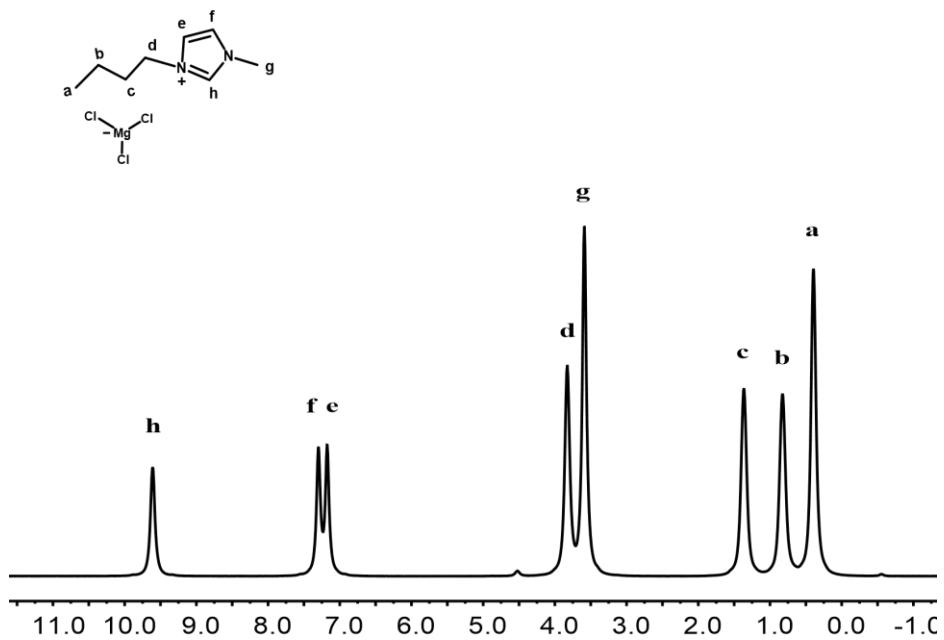


Figure S4. ^1H NMR spectrum of BmimMgCl₃

5. ESI-MS spectra of BmimMgCl_3

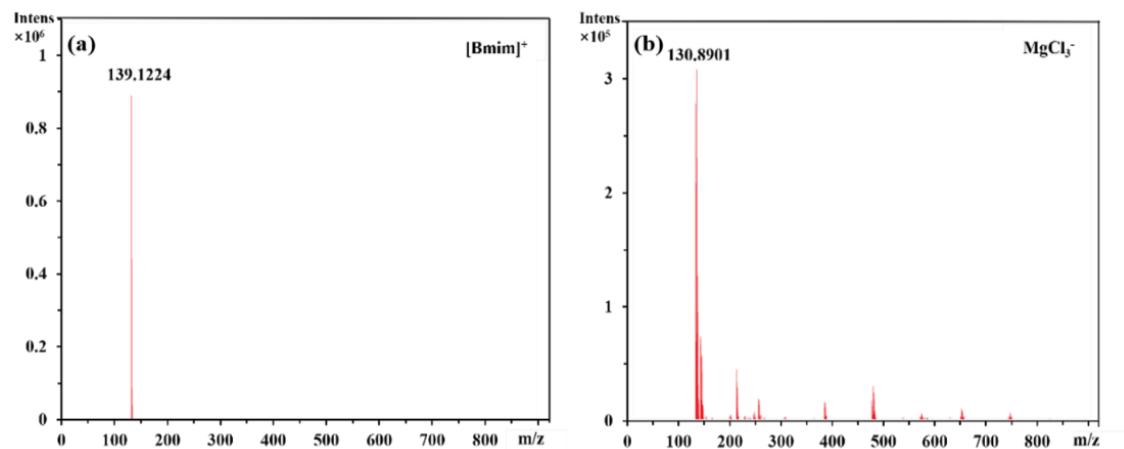


Figure S5. ESI-MS spectrum of BmimMgCl_3