

Fenton-like Ionic Liquids/H₂O₂ System: One-pot Extraction Combined with Oxidation Desulfurization of Fuel

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The results of IR and Raman data of ionic liquids

[Et₃NHCl]FeCl₃:

IR (KBr disc; cm⁻¹): 3503[ν(N-H)], 3001, 2939, 2880[ν(C-H)], 1471, 1400[δ(-CH₃)], 1174, 1036[δ(-CH₂-)], Raman (cm⁻¹): 333;

[Et₃NHCl]CuCl₂:

IR (KBr disc; cm⁻¹): 3491[ν(N-H)], 2989, 2939, 2879[ν(C-H)], 1471, 1393[δ(-CH₃)], 1173, 1036[δ(-CH₂-)], Raman (cm⁻¹): 235;

[Et₃NHCl]ZnCl₂:

IR (KBr disc; cm⁻¹): 3430[ν(N-H)], 2993, 2939, 2873[ν(C-H)], 1472, 1398[δ(-CH₃)], 1172, 1037[δ(-CH₂-)], Raman (cm⁻¹): 286;

[Et₃NHCl]CoCl₂:

IR (KBr disc; cm⁻¹): 3432[ν(N-H)], 2997, 2940, 2880[ν(C-H)], 1464, 1400[δ(-CH₃)], 1174, 1036[δ(-CH₂-)], Raman (cm⁻¹): 266, 277;

[Et₃NHCl]SnCl₂:

IR (KBr disc; cm⁻¹): 3445[ν(N-H)], 2981, 2939, 2880[ν(C-H)], 1463, 1393[δ(-CH₃)], 1173, 1037[δ(-CH₂-)], Raman (cm⁻¹): 256, 295;

[Et₃NHCl]CrCl₃:

IR (KBr disc; cm⁻¹): 3432[ν(N-H)], 2984, 2937, 2879[ν(C-H)], 1470, 1394[δ(-CH₃)], 1174, 1036[δ(-CH₂-)], Raman (cm⁻¹): 254, 326.