


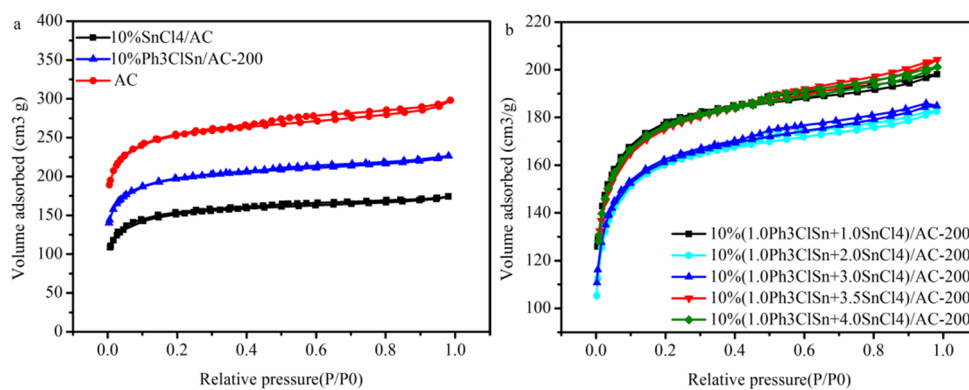
## SUPPLEMENTARY MATERIAL

### **Ph<sub>n</sub>SnCl<sub>4-n</sub> supported on activated carbon as novel tin-based catalysts for acetylene hydrochlorination**

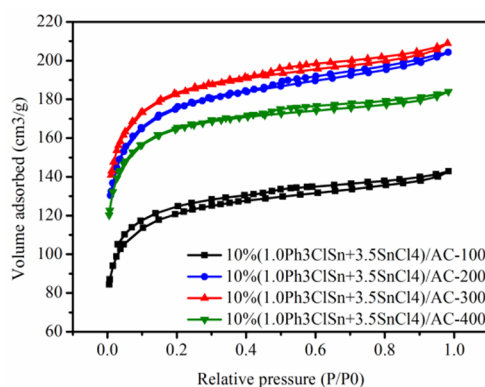
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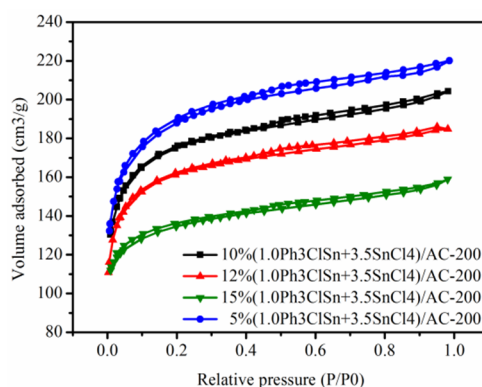
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**Figure 1S.** (a) N<sub>2</sub> physisorption isotherms of AC and different catalysts. (b) N<sub>2</sub> physisorption isotherms of Ph<sub>n</sub>SnCl<sub>4-n</sub>-based catalysts with different Ph<sub>3</sub>ClSn and SnCl<sub>4</sub> mole ratios



**Figure 2S.** N<sub>2</sub> physisorption isotherms of 1.0Ph<sub>3</sub>ClSn+3.5SnCl<sub>4</sub>/AC catalysts calcined at different temperatures



**Figure 3S.** N<sub>2</sub> physisorption isotherms of 1.0Ph<sub>3</sub>ClSn+3.5SnCl<sub>4</sub>/AC catalysts with different amounts of Ph<sub>3</sub>ClSn + SnCl<sub>4</sub>