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Tin-sulfur based catalysts for acetylene hydrochlorination

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Abstract: In the present work, tin-sulfur based catalysts were prepared using Na₂SO₃ and (CH₂SO₃)₂Sn and were tested in acetylene hydrochlorination. Based on the analysis of experiments results, the acetylene conversion of (CH₂SO₃)₂Sn/S@AC is still over 90% after a 50 h reaction, at the reaction conditions of T = 200 °C, V₁₀₂/V_{c202} = 1.1:1.0 and C₂H₂-GSHV = 15 h⁻¹. According to the results of X-ray photoelectron spectroscopy (XPS), HCl adsorption experiments, and acetylene temperature programmed desorption (C₂H₂-TPD), it is reasonable to conclude that the interaction between Sn and S not only can retard the oxidation of Sn¹⁻ in catalysts but also strengthen the reactant adsorption capacity of tin-based catalysts. Furthermore, results obtained from nitrogen adsorption/desorption and XPS proved that the CH₂SO₂-can effectively decrease the coke deposition of (CH₂SO₂)₂Sn/AC and thus prolong the lifetime of (CH₂SO₂)₂Sn/AC.

Key words: Sulfur, tin-based catalysts, acetylene hydrochlorination

1. Introduction

Poly vinyl chloride (PVC) with its good wear-proof and chemical erode resistant properties has been implemented in many aspects of human life and industrial production. Furthermore, PVC is predominately synthesized through free radical polymerization reactions of the vinyl chloride monomer (VCM). Because of the resource feature of rich-coal in many developing countries (e.g., China), they mainly adopted the activated carbon-supported mercury chloride as catalysts, which catalyze the acetylene hydrochlorination to manufacture vinyl chloride [1–3]. However, the higher toxicity, easily sublimation, and mercury abatement worldwide has prompted many scholars to research a series of novel catalysts using the green method, for the sustainable development of acetylene hydrochlorination [4–6].

The higher intrinsic activity of gold based catalysts than that of HgCl, catalysts for acetylene hydrochlorination was firstly reported by Hutchings et al., who also discovered that the deactivation of Au based catalysts originated from the reduction of Au3 to Au3 and the aggregations of Au species in catalysts [7-12]. However, the fatal problem for gold based catalysts is high cost. Later on, this problem was solved through nonprecious metals, such as Cu [13–16] and Sn [17–22]. Li et al. reported that the acetylene conversion of phosphorus-doped copper-based catalysts decreases from 99.0% to 97.2% after a 82 h reaction (reaction conditions: GHSV-C,H, = 30 h⁻¹, T = 140 °C, V_{sco}/V_{cont} = 1.15:1.0) [13]. Due to the introduction of phosphorus into the catalysts, which can effectively not only improve the dispersion but also lessen the aggregation of copper species, Cu-P/AC features better catalytic performance than the Cu/AC catalyst in acetylene hydrochlorination [13]. Additionally, when the reaction condition was maintained at GHSV-C,H, = 50 h⁻¹ and T = 200 °C, Zhai et al. founded that carbon supported CsCuCl, as catalysts still exhibited 92% hydrochlorination activity over 200 h [14]. Recently, Ren et al. reported that the (methoxymethyl) triphenylphosphonium chloride (MOMTPPC) ionic liquid has a positive effect on the dispersion and stabilization of Cu species in catalysts [16]. Specifically, Cu@MOMTPPC/AC still reached the 98.7% acetylene conversion after the 360 h stability test under the conditions of GHSV-C, $H_s = 36 h^{-1}$, T = 180"C, Vira/Viran = 1.2:1 [16]. Except for Cu catalysts, Deng et al. prepared SnCl, BiCl, CuCl/AC that can catalyze acetylene hydrochlorination and found that the deactivation of catalysts mainly attributed to the loss of tin(IV) chloride in acetylene hydrochlorination [17]. Although the tin-based catalysts exhibited considerable activity in acetylene hydrochlorination [18-20], the stability as the drawback is significant enough to restrict further development. In our previous study, it was discovered that the Sn1+ species is easily exidized to Sn1+, which results in the loss of Sn species during catalysis of acetylene

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New Reactions And Chemicals Based On Sulfur And Acetylene

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Table of Contents New Reactions And Chemicals Based On Sulfur And Acetylene

- 1. Understanding the eBook New Reactions And Chemicals Based On Sulfur And Acetylene
 - The Rise of Digital Reading New Reactions And Chemicals Based On Sulfur And Acetylene
 - Advantages of eBooks Over Traditional Books
- 2. Identifying New Reactions And Chemicals Based On Sulfur And Acetylene
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an New Reactions And Chemicals Based On Sulfur And Acetylene
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from New Reactions And Chemicals Based On Sulfur And Acetylene
 - Personalized Recommendations
 - New Reactions And Chemicals Based On Sulfur And Acetylene User Reviews and Ratings

- New Reactions And Chemicals Based On Sulfur And Acetylene and Bestseller Lists
- 5. Accessing New Reactions And Chemicals Based On Sulfur And Acetylene Free and Paid eBooks
 - New Reactions And Chemicals Based On Sulfur And Acetylene Public Domain eBooks
 - New Reactions And Chemicals Based On Sulfur And Acetylene eBook Subscription Services
 - New Reactions And Chemicals Based On Sulfur And Acetylene Budget-Friendly Options
- 6. Navigating New Reactions And Chemicals Based On Sulfur And Acetylene eBook Formats
 - o ePub, PDF, MOBI, and More
 - New Reactions And Chemicals Based On Sulfur And Acetylene Compatibility with Devices
 - New Reactions And Chemicals Based On Sulfur And Acetylene Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of New Reactions And Chemicals Based On Sulfur And Acetylene
 - Highlighting and Note-Taking New Reactions And Chemicals Based On Sulfur And Acetylene
 - o Interactive Elements New Reactions And Chemicals Based On Sulfur And Acetylene
- 8. Staying Engaged with New Reactions And Chemicals Based On Sulfur And Acetylene
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers New Reactions And Chemicals Based On Sulfur And Acetylene
- 9. Balancing eBooks and Physical Books New Reactions And Chemicals Based On Sulfur And Acetylene
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection New Reactions And Chemicals Based On Sulfur And Acetylene
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine New Reactions And Chemicals Based On Sulfur And Acetylene
 - Setting Reading Goals New Reactions And Chemicals Based On Sulfur And Acetylene
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of New Reactions And Chemicals Based On Sulfur And Acetylene
 - Fact-Checking eBook Content of New Reactions And Chemicals Based On Sulfur And Acetylene
 - Distinguishing Credible Sources

- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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