Preparation, Solid-state Characteristics, and Catalytic Properties of Promoted Vanadium Phosphate Materials

K. V. Narayana*, A. Martin***, B. L. cke*, M. Belmans*, F. Boers*, and D. van Deynse*

"Berlin, Invited f r Angewardte Chemie Berlin-Adlershof e.V."

^b Tessenderlo/Belgien, Tessenderlo Chemie S.A.

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Dedicated to Professor Manfred Meisel on the Occasion of his 65th Birthday

Abstract. The syntheses of transition metal promoted (M = Co, Cr, Fe, Mo) supported variations phosphate (VPO) catalysis (TiO_2 (matrixe), γ - Al_2O_3) and their characterization by N_2 adsorption, X-ray diffractometry (XRD), FTIR spectroscopy and determination of V-valence state is reported. The catalytic properties were checked in the heterogeneous catalytic ammonishing of 2,6-dichlorotobases to the corresponding nitrile. The catalyti samples were prepared by synthesis of the procursor compound VOHPO₄-0.5 H_2O , improgramion using various matalical solutions and mixing with the support materials. The characteristics revealed increased surface areas for all the promoted samples in comparison

to the basic materials. NRD showed the formation of (VO)₂P₂O₂ after calcinations as well as potter as of support materials (a nature, PALO₂). The formation of crystalline propertions of mixed oxides were not observed. The entalytic ammonalation runs awarded a significant effect of the promoter metals on the catalytic properties by an increase of yield by ca. 20 % compared to bulk VBO. Almost complete conversion of 2.6-dichlorotobane and 81 % yield of nitrale were observed using a 25 % VPCoO(2-Al)₂O₃ catalyte.

Keyworks Vanadium; Phosphorus; Catalysts; Heterogeneous catalysis

Synthese, Charakterisierung und katalytische Eigenschaften von promotierten Vanadiumphosphaten

Inhalts bersicht. Es wird ber die Synthese von bergangenetallioneupromotierten (M = Co, Cc, Fe, Mo) Varnadiumphosphat. Trgerkatzlyantoren (TsO_2 (Anatas), $\gamma_s Ad_2O_3$), deren Charakterisierang darch N_2 -Adsorption, R. regenbergung, FTIR-Spektroskopie und Bestimmung der V-Oxidationsozahl sowie die kutalytische Auspr fang in der hetotogen katzlysierten Ammodatzion von 2,6-Diehlorioluol ram entsprechenden Nitril berichtet. Die Kutalyntormmerinlien sind ber die Synthese der Vorl uferverbindung, VOHPO₄ = 0.5 H₂O₃ der Impergnierung mit den autsprechenden Motallsalzd sungen sowie der Vermischung mit den Tr-gerkomponenten zug nglich. Die Charakterisierung reigte f. r. alle promotier ten Katalysatoren deutlich erh hie Oberff chenwerte im Vergleich zu den Ausgang werbindungen. Mit R. stgenbrugung konnten mit die Pr. senz von (VO)₂P₂O₃, der aus dem Vord ufer (VOHPO₃ = 0.5 H₂O) entstebenden Verbindung, sowie die Beffete des Tr. germaterials (Anaton) nachgewiesen werden, Kristalline Mischphasen wurden nicht beobschite. Die katalytischen Vernsche zeigten einen deutlichen Hillekt der Promotierung. Ausbeutunteigerungen um en. 20 % konnten beobschat werden. Mit einem 25 %VPCoO(y-AlgO₃. Kotalysator wurden in der Ammandiations zu knien bei vollst neberm Umsatz 81 % Netril erhalten.

Introduction

Variadism phosphorus oxide (VPO) catalysts continue to attract considerable sessarch attention in recent times in view of their high potentiality towards various oxidation and ammoxidation seactions such as n-butane conversion to maleic anhydride and methyl aromatics ammoxidation to their corresponding nitriles [e.g. 1, 2]. Literature survey reveals that the best industrial catalysts from VPO family are generally not used in the form of pure VPO phases but incorporate a broad range of promoter compounds.

The addition of chromium has surface area increasing effect [3] and enhances the presence of amorphous VPO phases [4]. Iron modifies VOPO_V(VO)_2P_2O+ dispersion [5]. The formation of solid solutions within (VO)_2P_2O+ (VPP) is reported and it acts as an electronic promoter [6]. Cobalt addition leads to the formation of cobalt pyrophosphate structure that fills the micro pore voids and macro defects, and prevents gas phase loss of phosphorus from the catalysts [7]. Cobalt also causes an alteration of the micro structure of the entalyst and modifies VOPO_VPP dispersion too [5]. Molybdenum facilitates easy desorption of products from the catalyst surface [3], it maintains optimal defect concent ration [8] and blocks non-selective sites. Its presence leads to an increased exposure of (100) crystal plane and

^{*} Dr. Andreas Martin Institut f. r. Angewandte Chemie Berlin-Adlershof e.V.* Richard Wilho mer-Str. 12 D-12489 Berlin E-mail: a.martingijnen-berlin-de Fax: +49-30-63924454

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Handbook of Crystal Growth D. T. J. Hurle, 1994 Directory of Federally Supported Information Analysis Centers, 1979 National Referral Center (U.S.),1979 Introduction to Condensed Matter Chemistry Jihong Yu, Ruren Xu, Wenfu Yan, 2024-06-06 Introduction to Condensed Matter Chemistry offers a general view of chemistry from the perspective of condensed matter chemistry analyzing and contrasting chemical reactions in a more realistic setting than traditional thinking Readers will also find discussions on the goals and major scientific questions in condensed matter chemistry and the molecular engineering of functional condensed matter Processes and products of chemical reactions should not be determined solely by the structure and composition of these basic species but also by the complex and possibly multilevel structured physical and chemical environment together referred to as their condensed state Relevant matters in condensed state should be the main bodies of chemical reactions which is applicable not only to solids and liquids but also to gas molecules as reactions among gas molecules can take place only in the presence of catalysts in specific condensed states or after their state transition under extreme reaction conditions This book provides new insights on the liquid state chemistry definitions aspects and interactions summarizing fundamentals of main chemical reactions from a new perspective Helps to establish the new field of Condensed Matter Chemistry Highlights the molecular engineering of functional condensed matter Focuses on both liquid and solid state chemistry Scientific and Technical Aerospace Reports ,1994

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