



Novel 11C-radioisotope method for catalysis study

By Eva Sarkadi-Priboczki

LAP Lambert Academic Publishing Dez 2013, 2013. Taschenbuch. Book Condition: Neu. 220x150x4 mm. This item is printed on demand - Print on Demand Neuware - The application of radioisotope labeled molecules gives a sensitive detection method to follow adsorption, desorption and catalytic transformations even in co-reaction with non-labeled compounds. This radiolabeling technique was introduced for study of methanol transformation, first on proton and subsequently on Cs, Cu and Fe ion-exchanged aluminosilicates. This novel method was excellent to follow and analyze methanol transformations on different catalysts. The gas chromatographic (GC) analysis was completed with a radiodetector that could distinguish the radiolabeled derivatives from other non-radioactive compounds, reagents or impurities. The radio-GC results confirmed the role of acid, basic and redox sites on H- and metal-modified zeolites and MCM-41 catalysts. 72 pp. Englisch.



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