



Carbures bimétalliques(Mo,W) pour l'isomérisation du n-heptane

By Anne-Félicie Lamic-Humblot

PAF Feb 2014, 2014. Taschenbuch. Book Condition: Neu. 220x150x9 mm. Neuware - Ce travail porte sur la synthèse, la caractérisation et la réactivité en isomérisation du n-heptane de nouveaux carbures bimétalliques. L'utilisation de différentes méthodes de synthèse amène à des carbures de phases cristallographique différentes, déterminées par DRX et microscopie électronique. Les analyses XPS montrent que le molybdène est réduit alors que le tungstène reste sous forme oxyde. Les activités catalytiques de Mo₂C-WO₂ et des nouveaux carbures bimétalliques, formés d'une phase mixte (Mo, W)₂C, avec différents rapports Mo/W, sont similaires. Une mise en régime est due à un dépôt de coke à la surface du catalyseur, l'activité initiale étant retrouvée avec un traitement en température sous hydrogène. La sélectivité en iso-heptane est toujours supérieure à 86%. Le mécanisme est bifonctionnel. Les sites acides ont été dénombrés grâce à une nouvelle méthode de titrage par l'isopropylamine, amenant à la vitesse de rotation de la réaction d'isomérisation. 152 pp. Französisch.



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