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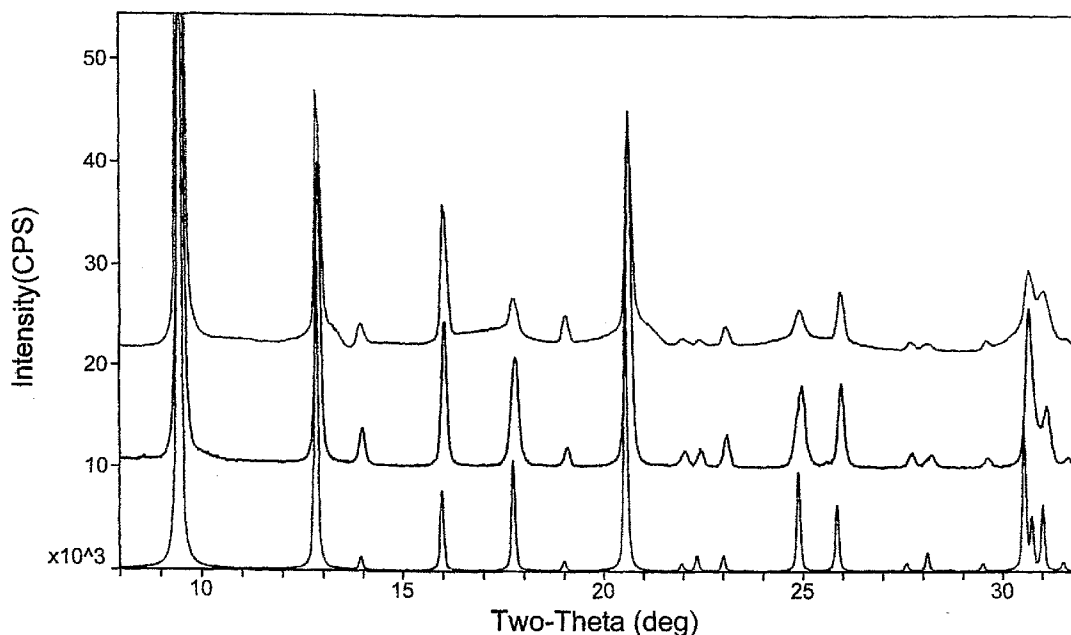
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(54) Title: SAPO-34 MOLECULAR SIEVES WITH HIGH SELECTIVITY TOWARDS LIGHT OLEFINS IN METHANOL TO OLEFIN CONVERSION



(57) Abstract: A sapo-34 based catalyst for the use in methanol to olefin conversion is identified, and a process for identifying the structure of the catalyst is presented, which is used to determine the quality of the catalyst for its selectivity for producing high light olefins yield. The ratio of peak heights, from the x-ray diffraction pattern, for the peaks at 30.7° 2θ and 31.0° 2θ shall be greater than 0.75 .

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