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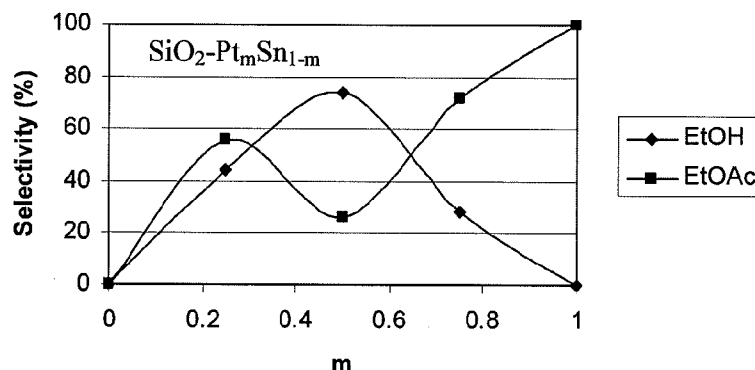
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(54) Title: CATALYSTS FOR MAKING ETHYL ACETATE FROM ACETIC ACID

FIG. 1A - Selectivity Pt/Sn Catalyst



(57) Abstract: Catalysts and processes for making catalysts suitable for use in processes for hydrogenating acetic acid to form of ethyl acetate and mixtures of ethyl acetate and ethanol. In a first embodiment, the catalyst includes a high loading of nickel, palladium or platinum. In a second embodiment, the catalyst comprises a first metal selected from nickel and palladium and a second metal selected from tin and zinc. In a third embodiment, the catalyst comprises one or more metals on a support that has been modified with an acidic support modifier or a redox support modifier.



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