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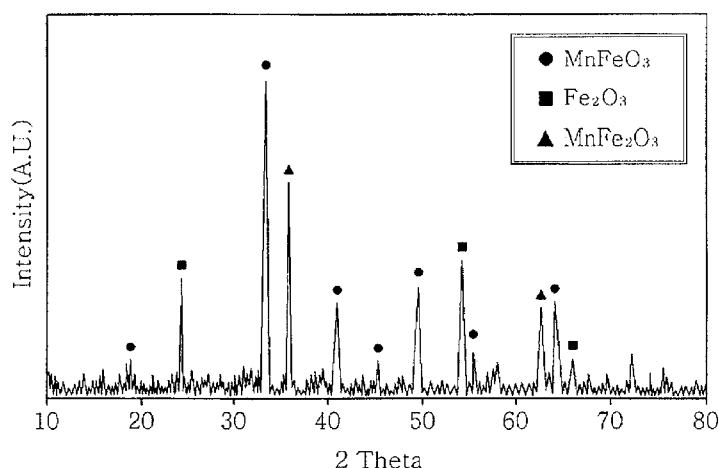
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(54) Title: MIXED MANGANESE FERRITE CATALYSTS, METHOD OF PREPARING THEREOF AND METHOD OF PREPARING 1,3-BUTADIENE USING THEREOF

FIG. 1



(57) Abstract: The present invention provides a method of producing a mixed manganese ferrite catalyst, and a method of preparing 1,3 -butadiene using the mixed manganese ferrite catalyst. Specifically, the present invention provides a method of producing a mixed manganese ferrite catalyst through a coprecipitation method which is performed at a temperature of 10 ~ 40 °C, and to a method of preparing 1,3 -butadiene using the mixed manganese ferrite catalyst through an oxidative dehydrogenation reaction, in which a C4 mixture containing n-butene, n-butane and other impurities is directly used as reactants without performing additional n-butane separation process or n-butene extraction. The present invention is advantageous in that 1,3-butadiene can be prepared directly using a C4 mixture including n-butane at a high concentration as a reactant through an oxidative hydrogenation reaction without performing an additional n-butane separation process, and 1,3-butadiene, having high activity, can be also obtained in high yield for a long period of time.



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