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(54) Title: **MANUFACTURING PROCESS FOR α -OLEFINS**

(57) Abstract: An efficient manufacturing process for α -olefins using certain iron containing ethylene oligomerization catalysts, comprises one or more liquid full reactors which are ap-proximately at the bubble point of reacting ethylene, and optionally a final reactor which is at a lower pressure than the first reactor, both operating under other specified conditions. This process minimizes both the capital and operating costs for the plant. The α -olefins produced are useful as monomers for polymers and as chemical intermediates, for exaøple for making detergents.