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(54) Title: CATALYSTS FOR THE AMMOXIDATION OF ALKANES

(57) Abstract: An ammoxidation catalyst characterized by the following empirical formula comprising: $\text{VSb}_a\text{Sn}_b\text{Ti}_c\text{Fe}_d\text{O}_x$; where $1 \leq a \leq 1.8$, $0 \leq b \leq 0.35$, $0 \leq c \leq 0.15$, $0 < d \leq 0.8$, $0 < b+c \leq 0.5$, $1 \leq a-d < 1.8$ and when $a-d > 1.2$ then $0 < d \leq 0.5$ and $0.3 \leq b+c \leq 0.5$ and when $a-d \leq 1.2$ then $0.2 < d \leq 0.8$ and $0 < b+c < 0.3$ and x is determined by the oxidation states of the cations present in the catalyst. Preferably, the catalyst has been calcined at a temperature of at least 780 °C.