catalytic dehydrocyclization

A reaction in which an alkane is converted into an aromatic hydrocarbon and hydrogen. For example,

\[ \text{alkane} \rightarrow \text{aromatic hydrocarbon} + 4\text{H}_2 \]

Source:
PAC, 1976, 46, 71 (Manual of Symbols and Terminology for Physicochemical Quantities and Units - Appendix II. Definitions, Terminology and Symbols in Colloid and Surface Chemistry. Part II: Heterogeneous Catalysis) on page 86