

Table 2
Catalyst poisons and inhibitors in chemical processes [Ullmann, 1985]

Process	Catalyst	Catalyst Poison, Inhibitor	Mode of action
NH ₃ synthesis	Fe	<p>S, Se, Te, P, As compounds, Halogens</p> <p>O₂, H₂O, NO</p> <p>CO₂</p> <p>CO</p> <p>unsaturated hydrocarbons</p>	<p>poison: strong chemisorptions or formation of compounds</p> <p>weak poison: oxidation of Fe surface; reduction possible but causes sintering</p> <p>inhibitor : reaction with alkaline promoters</p> <p>poison and inhibitor: strong chemisorption, reduction to methane; accelerates sintering</p> <p>inhibitor : strong chemisorption, slow reduction</p>
Hydrogenation	Ni, Pt, Pd, Cu	<p>S, Se, Te, P, As compounds, Halogens Hg and Pb Compounds</p> <p>O₂</p> <p>CO</p>	<p>poison: strong chemisorptions</p> <p>poison: alloy formation</p> <p>poison: surface oxide film</p> <p>Ni forms volatile carbonyls</p>

Catalyst Deactivation

Shasha Hu



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