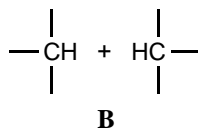
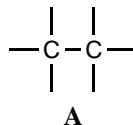


catalytic hydrogenolysis

Ordinarily, a reaction in which **A** + H₂ gives **B**.



For example,

propane + H₂ → ethane + methane

toluene + H₂ → benzene + methane

butane + H₂ → 2 × ethane

The term may also be used for cleavage of bonds other than **A**, e.g.

benzyl acetate + H₂ → toluene + acetic acid

benzylamine + H₂ → toluene + NH₃

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