The Haber process is carried out at 450°C and 200 atm pressure with an iron catalyst.

$$2N_2 + 3H_2 \rightleftharpoons 2NH_3 \qquad \Delta H = -92 \text{ kJ}$$
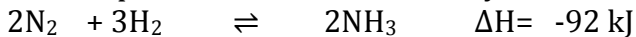
Why is a catalyst is used in Haber's process?