$$\begin{array}{c} \operatorname{CaCz}(5) + \operatorname{N}_2(8) \longrightarrow \operatorname{C}_3\operatorname{NCN}(s) + \operatorname{C}(s) \\ \operatorname{CaCN}_2 + \operatorname{C} + \operatorname{Na}_2\operatorname{C}()_3 \longrightarrow \operatorname{CaC}()_3 + 2\operatorname{NaCN} \\ \operatorname{CH}_4(8) + \operatorname{NH}_3(8) \longrightarrow \operatorname{HCN}(g) + 3\operatorname{H}_2(g) \\ 4\operatorname{HcN} + ()_2 \longrightarrow 2\left(\operatorname{CN}\right)_2 + 2\operatorname{H}_{20} \\ 4\operatorname{CN} + \operatorname{Cu}^{z+} \longrightarrow 2\operatorname{Cu}(\operatorname{CN}) + (\operatorname{CN})_2 \\ (\operatorname{CN})_2 + 20\operatorname{H}^- \longrightarrow \operatorname{CN}^- + ()\operatorname{CN}^- + \operatorname{HzO} \\ \operatorname{CaNCN} + \operatorname{H}_{70} \longrightarrow \operatorname{Ca}() + \operatorname{HzNCN} \end{array}$$