



R1: $1.00\text{NC}_{10}\text{H}_{19} \Rightarrow 0.600\text{C}_2\text{H}_4 + 0.600\text{C}_3\text{H}_6 + 0.500\text{C}_3\text{H}_5\text{-A} + 0.500\text{C}_4\text{H}_7\text{-1} + 0.500\text{NC}_7\text{H}_{14}$
R2: $1.00\text{NC}_{10}\text{H}_{19} \Rightarrow 0.250\text{C}_2\text{H}_4 + 0.500\text{C}_4\text{H}_6 + 1.00\text{NC}_5\text{H}_{11} + 0.500\text{LC}_5\text{H}_8$
R3: $1.00\text{NC}_{10}\text{H}_{20} \Rightarrow 0.500\text{C}_3\text{H}_5\text{-A} + 0.500\text{C}_4\text{H}_7\text{-1} + 0.250\text{NC}_5\text{H}_{11} + 0.750\text{NC}_7\text{H}_{15}$