1 CCS Model

$$
\begin{aligned}
CH_3OH &= \overline{c}.(H_2O \mid H_2) + \overline{h}.CH_2OH + \overline{oh}.CH_3 \\
CH_2OH &= \overline{c}.(H_2O \mid H) + \overline{h}.CHOH + \overline{oh}.CH_2 \\
CHOH &= \overline{c}.H_2O + \overline{h}.COH + \overline{oh}.CH
\end{aligned}
$$

$$
\begin{aligned}
CH_3 &= \overline{c}.H_3 + \overline{h}.CH_2 \\
CH_2 &= \overline{c}.H_2 + \overline{h}.CH \\
CH &= \overline{c}.H + \overline{h}.C
\end{aligned}
$$

$$
\begin{aligned}
CHOH &= \overline{c}.HOH + \overline{oh}.CH + \overline{h}.COH \\
COH &= \overline{c}.OH + \overline{oh}.C
\end{aligned}
$$

$$
\begin{aligned}
H_3OH &= \overline{h}.H_2OH + \overline{oh}.H_3 \\
H_2OH &= \overline{h}.HOH + \overline{oh}.H_2 \\
HOH &= \overline{h}.OH + \overline{oh}.H
\end{aligned}
$$

$$
\begin{aligned}
H_3 &= \overline{h}.H_2 \\
H_2 &= \overline{h}.H \\
H &= \overline{h}.0 + oh.H_2O
\end{aligned}
$$

$$
\begin{aligned}
O_2 &= c.CO_2 + \overline{o}.O \\
O &= h.OH + \overline{o}.0 \\
OH &= h.H_2O + \overline{o}.H + \overline{h}.O \\
C &= o.CO \\
CO &= o.CO_2
\end{aligned}
$$