$$v = \frac{N}{D} \tag{1a}$$

where

$$N = E_0 H K_{iB} K_{mA2} S k_2 k_4 k_5 \tag{1b}$$

and

$$
\begin{aligned}
D = {} & H^2 K_{iB} K_{mB} k_2 k_5 + H^2 K_{iB} K_{mB} k_5 k_7 + H K_{iB} K_{mA} K_{mB} k_5 k_7 \\
& + H K_{iB} K_{mA2} K_{mB} k_2 k_5 + H K_{iB} K_{mA2} S k_2 k_4 \\
& + H K_{iB} K_{mA2} S k_2 k_5 + H K_{iB} K_{mA2} S k_4 k_5 + H K_{mA} K_{mB} S k_5 k_7 \\
& + K_{iB} K_{mA} K_{mA2} S k_4 k_5 + K_{mA} K_{mA2} S^2 k_4 k_5
\end{aligned} \tag{1c}
$$