The MO orbitals in the Huckel approximation for ozone are:

$$
\begin{aligned}
\varphi_1 &= \tfrac{1}{2}\left(p_1 + \sqrt{2}p_2 + p_3\right) \\
\varphi_2 &= \tfrac{\sqrt{2}}{2}\left(p_1 - p_3\right) \\
\varphi_3 &= \tfrac{1}{2}\left(p_1 - \sqrt{2}p_2 + p_3\right)
\end{aligned}
$$

A single-determinant MO wavefunction of ozone based on the Hückel orbitals would look as follows:

$$\psi_{Hückel} = \left|\varphi_1\overline{\varphi}_1\varphi_2\overline{\varphi}_2\right| = \left|\tfrac{1}{2}\left(p_1 + \sqrt{2}p_2 + p_3\right)\overline{\tfrac{1}{2}\left(p_1 + \sqrt{2}p_2 + p_3\right)}\tfrac{\sqrt{2}}{2}\left(p_1 - p_3\right)\overline{\tfrac{\sqrt{2}}{2}\left(p_1 - p_3\right)}\right|$$

Developing it into the basis atomic orbitals we get:

$$
\begin{aligned}
\psi_{Hückel} = \tfrac{1}{8}\Big(&\left|p_1\overline{p}_1p_3\overline{p}_3\right| - \sqrt{2}\left|p_1\overline{p}_2p_3\overline{p}_1\right| + \sqrt{2}\left|p_1\overline{p}_2p_3\overline{p}_3\right| - \left|p_1\overline{p}_3p_3\overline{p}_1\right| - \\
&\sqrt{2}\left|p_2\overline{p}_1p_1\overline{p}_3\right| + \sqrt{2}\left|p_2\overline{p}_1p_3\overline{p}_3\right| + 2\left|p_2\overline{p}_2p_1\overline{p}_1\right| - 2\left|p_2\overline{p}_2p_1\overline{p}_3\right| - 2\left|p_2\overline{p}_2p_3\overline{p}_1\right| + 2\left|p_2\overline{p}_2p_3\overline{p}_3\right| + \\
&\sqrt{2}\left|p_2\overline{p}_3p_1\overline{p}_1\right| - \sqrt{2}\left|p_2\overline{p}_3p_3\overline{p}_1\right| - \\
&\left|p_3\overline{p}_1p_1\overline{p}_3\right| + \sqrt{2}\left|p_3\overline{p}_2p_1\overline{p}_1\right| - \sqrt{2}\left|p_3\overline{p}_2p_1\overline{p}_3\right| + \left|p_3\overline{p}_3p_1\overline{p}_1\right|\Big)
\end{aligned}
$$

We will now reorder and gather the components:

$$
\begin{aligned}
\psi_{Hückel} = \tfrac{1}{8}\Big(&4\left|p_1\overline{p}_1p_3\overline{p}_3\right| + 2\left|p_1\overline{p}_1p_2\overline{p}_2\right| + 2\left|p_2\overline{p}_2p_3\overline{p}_3\right| \\
&+ 2\sqrt{2}\left|p_1\overline{p}_1p_2\overline{p}_3\right| - 2\sqrt{2}\left|p_1\overline{p}_1\overline{p}_2p_3\right| \\
&+ 2\sqrt{2}\left|p_1\overline{p}_2p_3\overline{p}_3\right| - 2\sqrt{2}\left|\overline{p}_1p_2p_3\overline{p}_3\right| \\
&+ 2\left|p_2\overline{p}_2\overline{p}_1p_3\right| - 2\left|p_2\overline{p}_2p_1\overline{p}_3\right|\Big) =
\end{aligned}
$$

$$
\begin{aligned}
\psi_{Hückel} = &\tfrac{1}{2}\left|p_1\overline{p}_1p_3\overline{p}_3\right| + \tfrac{1}{4}\left(\left|p_1\overline{p}_1p_2\overline{p}_2\right| + \left|p_2\overline{p}_2p_3\overline{p}_3\right|\right) + \\
&+ \tfrac{\sqrt{2}}{4}\left(\left|p_1\overline{p}_1p_2\overline{p}_3\right| - \left|p_1\overline{p}_1\overline{p}_2p_3\right|\right) + \tfrac{\sqrt{2}}{4}\left(\left|p_1\overline{p}_2p_3\overline{p}_3\right| - \left|\overline{p}_1p_2p_3\overline{p}_3\right|\right) + \\
&+ \tfrac{1}{4}\left(\left|p_2\overline{p}_2\overline{p}_1p_3\right| - \left|p_2\overline{p}_2p_1\overline{p}_3\right|\right)
\end{aligned}
$$

Since:

$$\left|p_1\overline{p}_1 p_3\overline{p}_3\right| = \phi_a \quad ; \quad \left|p_1\overline{p}_1 p_2\overline{p}_2\right| = \phi_b \quad ; \quad \left|p_2\overline{p}_2 p_3\overline{p}_3\right| = \phi_c$$

$$\tfrac{\sqrt{2}}{2}\left(\left|p_1\overline{p}_1 p_2\overline{p}_3\right| - \left|p_1\overline{p}_1\overline{p}_2 p_3\right|\right) = \phi_d \quad ; \quad \tfrac{\sqrt{2}}{2}\left(\left|p_1\overline{p}_2 p_3\overline{p}_3\right| - \left|\overline{p}_1 p_2 p_3\overline{p}_3\right|\right) = \phi_e$$

$$\tfrac{\sqrt{2}}{2}\left(\left|p_2\overline{p}_2\overline{p}_1 p_3\right| - \left|p_2\overline{p}_2 p_1\overline{p}_3\right|\right) = \phi_f$$

We get:

$$\psi_{H\ddot{u}ckel} = \tfrac{1}{2}\phi_a + \tfrac{1}{4}\left(\phi_b + \phi_c\right) + \tfrac{1}{2}\left(\phi_d + \phi_e\right) + \tfrac{\sqrt{2}}{4}\phi_f$$