





$U = 10 + 1 - \frac{1}{2}(14 - 0) = 11 - 7 = 4 \Rightarrow$ maybe aromatic \Rightarrow confirmed by $v(C-H)$ sp^2 and $v(C=C)_{ar}$?
yes

\Rightarrow overtones between 2000 and 1670 cm^{-1} ? yes, para substitution \Rightarrow confirmed by $\delta(C-H)_{oop}$? yes



C_6H_4 fragment, left are C_4H_{10}

either C_1 (methyl) plus C_3 (propyl or isopropyl) or twice C_2 (ethyl) $\Rightarrow \delta(CH_3)$ isopropyl!

