CHEM 264 Assignment 1

Brandon Tsang

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For each of the following species, draw <u>all</u> valid resonance structures and identify the most important resonance contributor. Use curved arrows to show (mental) movement of electron pairs.

$$\Theta\ddot{\mathbf{C}}\mathbf{H}_{2}\mathbf{NO}_{2}$$
 $\Theta\ddot{\mathbf{N}}_{-}\mathbf{H}$ $\mathbf{H}_{-}\mathbf{N}_{0}$ $\mathbf{N}_{1}\mathbf{N}\mathbf{H}_{2}$

Resonance structures for the first one:

Resonance structures for the second one:

$$\oplus \bigvee : N \longrightarrow H \longleftrightarrow \bigvee M \longrightarrow H$$

most important

Resonance structures for the third one: