

Answer on Question #60557, Chemistry / General Chemistry

1. For $(\text{NH}_2)_2\text{CO}$ molecule. What is the total theoretical number of octet electrons?

Solution:

The octet rule is a chemical rule of thumb that reflects observation that atoms of main-group elements tend to combine in such a way that each atom has eight electrons in its valence shell, giving it the same electronic configuration as a noble gas. The rule is especially applicable to carbon, nitrogen, oxygen, and the halogens, but also to metals such as sodium or magnesium.

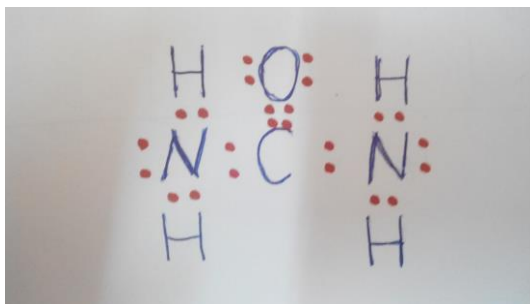


Fig.1. Lewis electron dot diagram for $(\text{NH}_2)_2\text{CO}$ molecule
According to the Fig.1. number of octet electrons is 24

Answer: total number of octet electrons is 24