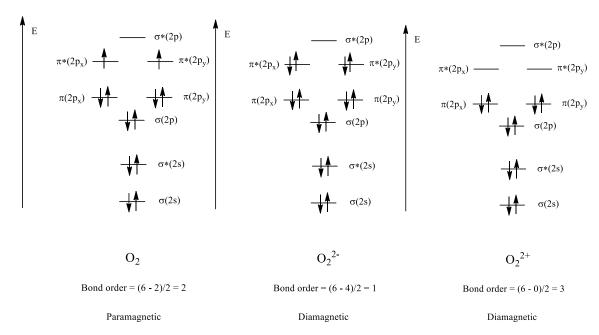
Answer on Question #48950 – Chemistry – Inorganic Chemistry

Question:

Determine the bond order for O_2 and O_2 and indicate their magnetic behaviour.

Answer:

According to the MO (Molecular orbital) model molecules have the following orbital diagrams:



Bond orders are defined as a half of a difference between the numbers of electrons laying on the bonding and antibonding orbitals, respectively. The appearance of unpaired electrons makes a substance paramagnetic.