

Answer on Question #83359 – Chemistry – Organic Chemistry

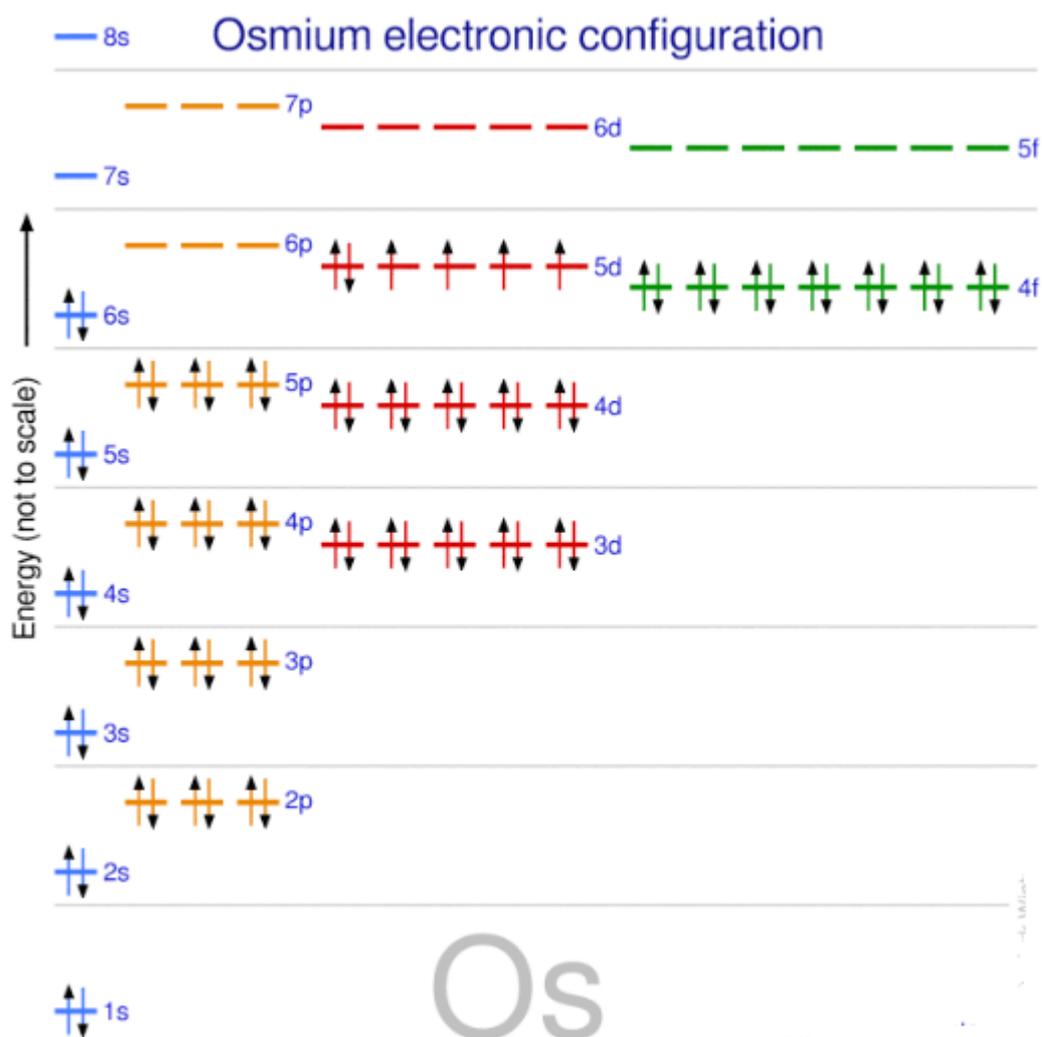
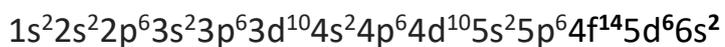
Task:

What is the electronic structure for the element osmium?

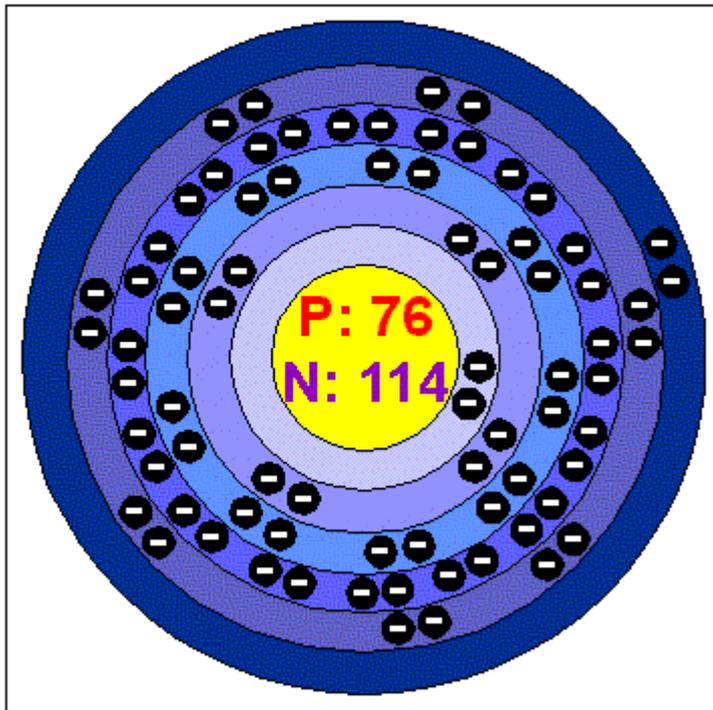
Solution:

The atomic number of osmium (Os) is 76. Thus, a osmium atom contains 76 protons, 76 electrons and 114 neutrons.

The ground state electron configuration of neutral osmium is $[\text{Xe}]4f^{14}5d^66s^2$.



Atomic Structure



Number of Energy Levels: 6

First Energy Level: 2
Second Energy Level: 8
Third Energy Level: 18
Fourth Energy Level: 32
Fifth Energy Level: 14
Sixth Energy Level: 2

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