

## Answer on Question #55172 - Chemistry - General chemistry

### Question:

From the groundstate electron configuration of B and C predict which molecule should have the greater dissociation energy.

### Answer:

MO of B:  $1\sigma^2 2\sigma^{*2} 1\pi^2$

MO of C:  $1\sigma^2 2\sigma^{*2} 1\pi^4$

The bond order of C twice more than bond order of B. That's why  $C_2$  should have the greater dissociation energy.