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chemical potential wikipedia Nov 04 2020 web in thermodynamics the chemical potential of a species is the energy that can be absorbed or released due to a change of the particle number of the species e.g. in a chemical reaction or phase transition the chemical potential of a species in a system is defined as the rate of change of free energy of a thermodynamic system with respect to the number of particles of that species

molecular orbital diagram wikipedia Nov 16 2021 web a molecular orbital diagram or MO diagram is a qualitative descriptive tool explaining chemical bonding in molecules in terms of molecular orbital theory in general and the linear combination of atomic orbitals (LCAO) method in particular a

fundamental principle of these theories is that as atoms bond to form molecules a certain number of atomic orbitals

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8 c find ΔH_{rxn} for the reaction as written assume that the specific heat capacity of the solution is $4.184 \text{ J/g} \cdot \text{K}$ and the density is 1.00 g/ml a 195 kJ b 354 kJ c 122 kJ d 221 kJ
metals close to the border between metals and metalloids May 10 2021 web platinum is a moderately hard metal with a low mechanical strength with a close packed face centred cubic structure compared to other metals in this category it has an unusually high melting point 2042 K vs 1337 K for gold platinum is more ductile than gold silver or copper thus being the most ductile of pure metals it is less malleable

intersystem crossing wikipedia Oct 25 2019 web simply stated it involves coupling of the electron spin with the orbital angular momentum of non circular orbits in addition the presence of paramagnetic species in solution enhances intersystem crossing the radiative decay from an excited triplet state to a singlet state is known as phosphorescence since a transition in spin

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