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| <p>_____ 1. Which set of values represents standard pressure and standard temperature?</p> <p>(1) 1 atm and 101.3 K
(2) 1 kPa and 273 K
(3) 101.3 kPa and 0°C
(4) 101.3 atm and 273°C</p> <p>_____ 2. Which statement about one atom of an element identifies the element?</p> <p>(1) The atom has 1 proton.
(2) The atom has 2 neutrons.
(3) The sum of the number of protons and neutrons in the atom is 3.
(4) The difference between the number of neutrons and protons in the atom is 1.</p> <p>_____ 3. A substance is classified as either an element or a</p> <p>(1) compound
(2) solution
(3) heterogeneous mixture
(4) homogeneous mixture</p> <p>_____ 4. A solid element that is malleable, a good conductor of electricity, and reacts with oxygen is classified as a</p> <p>(1) metal (2) metalloid
(3) noble gas (4) nonmetal</p> <p>_____ 5. Three forms of energy are</p> <p>(1) chemical, exothermic, and temperature
(2) chemical, thermal, and electromagnetic
(3) electrical, nuclear, and temperature
(4) electrical, mechanical, and endothermic</p> <p>_____ 6. What is the total amount of heat required to vaporize 1.00 gram of $\text{H}_2\text{O}(\ell)$ at 100.°C and 1 atmosphere?</p> <p>(1) 4.18 J (2) 334 J
(3) 373 J (4) 2260 J</p> | <p>_____ 7. What is required for a chemical reaction to occur?</p> <p>(1) standard temperature and pressure
(2) a catalyst added to the reaction system
(3) effective collisions between reactant particles
(4) an equal number of moles of reactants and products</p> <p>_____ 8. Which compound is soluble in water?</p> <p>(1) PbS (2) BaS
(3) Na₂S (4) Fe₂S₃</p> <p>_____ 9. Compared to a 26-gram sample of NaCl(s) at STP, a 52-gram sample of NaCl(s) at STP has</p> <p>(1) a different density
(2) a different gram-formula mass
(3) the same chemical properties
(4) the same volume</p> <p>_____ 10. A gas changes directly to a solid during</p> <p>(1) fusion (2) deposition
(3) saponification (4) decomposition</p> |
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