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the formation of a solution from a solute and a solvent is a physical process not a chemical one substances that are miscible such as gases form a single phase in all proportions when mixed substances that form separate phases are immiscible solvation is the process in which solute particles are surrounded by solvent molecules in chemistry a solution is a special type of homogeneous mixture composed of two or more substances in such a mixture a solute is a substance dissolved in another substance known as a solvent about transcript physical and chemical processes can be classified by the changes occurring on the molecular level in general chemical processes involve changes in chemical bonds while physical processes involve changes only in intermolecular forces learn more turnkey chemical process lines custom tank fabrication chemical process consulting process automation custom chemical blending and distribution chemical purification and recovery systems chemical analysis metal surface finishing from hess s law we know that we can add the energies of each step in the cycle to determine the energy of the overall process therefore the energy of solution formation the enthalpy of solution equals the sum of the three steps $\Delta H_{\text{soln}} = \Delta H_1 + \Delta H_2 + \Delta H_3$ the breaking of bonds requires or absorbs energy solutions by elementary principles of chemical processes 4th edition edit edition looking for the textbook we have solutions for your book this problem has been solved problem 1p chapter ch2 problem 1p step by step solution step 1 of 5 the international system of unit is si and the full form of si is system international

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from hess s law we know that we can add the energies of each step in the cycle to determine the energy of the overall process therefore the energy of solution formation the enthalpy of solution equals the sum of the three steps d h soln d h 1 d h 2 d h 3 the breaking of bonds requires or absorbs energy

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