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[Stoichiometry - Wikipedia](#)

Important Questions from Chemical Engineering. Sample Question 1: For a chemical reaction, the ratio of rate constant at 500 K to that at 400 K is 2.5. Given $R = 8.314 \text{ J mol}^{-1} \text{ K}^{-1}$, the value of activation energy (in kJ/mol) is ____? Sample Question 2: In the year 2005, the cost of a shell and tube heat exchanger with 68 m² heat transfer area was Rs. 12.6 Lakh.

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Similarly, chemical kinetics is a part of physical

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chemistry that is related to the study of reaction rates. It has many applications that include enzymology, chemical engineering, and environmental engineering. In a chemical reaction, products are formed due to the collision between the reactant molecules.

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The water causes the hardening of concrete through a process called hydration. Hydration is a chemical reaction in which the major compounds in cement form chemical bonds with water molecules and become hydrates or hydration products. Details of the hydration process are explored in the next section.

[Journal of Chemical & Engineering Data](#)

chem·i·cal (kəm??-kəl) adj. 1. Of or relating to chemistry. 2. Of or relating to the properties or actions of chemicals. 3. Of or relating to chemical weapons: chemical warfare. n. 1. A substance with a distinct molecular composition that is produced by or used in a chemical process. 2. A drug, especially an illicit or addictive one. [Obsolete ...

[American Chemical Society - ACS Publications: Chemistry ...](#)

Vinegar has, among other things, a chemical called acetic acid (about 3% of it is acetic acid). Egg shells contain calcium carbonate. Calcium carbonate in the egg shell reacts with vinegar to form carbon dioxide (can be seen as bubbles in the vinegar). The reaction is: $\text{CaCO}_3 + 2\text{H}^+ \rightarrow \text{Ca}^{2+} + \text{H}_2\text{O} + \text{CO}_2$
(published on 10/22/2007)

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When a chemical reaction produces a gaseous product, this is an indication that a chemical change is occurring. Visually, this gaseous product is simply the presence of bubbles.