

Chapter 1: Introduction to Chemistry

What is chemistry? The study of matter and its properties.

What is a chemical reaction? A process in which one or more substances are converted into one or more new substances.

- | Properties | Characteristics |
|-----------------------|------------------------|
| 1. Mass | 1. Color |
| 2. Density | 2. Odor |
| 3. Boiling point | 3. Melting point |
| 4. Freezing point | 4. Solubility |
| 5. Viscosity | 5. Conductivity |
| 6. Refractive index | 6. Radioactivity |
| 7. Hardness | 7. Brittleness |
| 8. Malleability | 8. Ductility |
| 9. Tensile strength | 9. Compressibility |
| 10. Thermal stability | 10. Chemical stability |

What is the difference between a physical and a chemical change?

Physical change: A change in which the substance's physical properties are altered, but its chemical composition remains the same.

Chemical change: A change in which the substance's chemical composition is altered, resulting in the formation of a new substance.

Property	Physical Change	Chemical Change
Color	May change	Always changes
Odor	May change	Always changes
Taste	May change	Always changes
Texture	May change	Always changes
Boiling point	Does not change	Always changes
Freezing point	Does not change	Always changes
Density	Does not change	Always changes
Mass	Does not change	Always changes
Volume	Does not change	Always changes
Pressure	Does not change	Always changes
Temperature	Does not change	Always changes
Conductivity	Does not change	Always changes
Refractive index	Does not change	Always changes
Hardness	Does not change	Always changes
Malleability	Does not change	Always changes
Ductility	Does not change	Always changes
Tensile strength	Does not change	Always changes
Thermal stability	Does not change	Always changes
Chemical stability	Does not change	Always changes

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Anthony S. Fauci



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The Athenaeum, 1883 **Journal of the Missouri Botanical Garden**, 1950 Weekly Florists' Review Gilbert Leonard Grant, 1928 *Historical Geology* Reed Wicander, James Stewart Monroe, 2000

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