

DISULPHIDE

Meaning: Disulphide refers to a chemical compound containing two sulfur atoms bonded together, often found in the form of disulphide bonds that stabilize protein structures and enhance material properties in industrial applications.

1. The disulphide bond plays a crucial role in stabilizing the three-dimensional structure of proteins.
2. Chemists often use disulphide compounds in various industrial applications to enhance material properties.
3. During the formation of keratin, disulphide linkages contribute significantly to the strength of hair and nails.
4. The reduction of disulphide bridges in a peptide can lead to conformational changes that affect its biological function.
5. Researchers are exploring new methods to synthesize disulphide-linked polymers for advanced drug delivery systems.

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