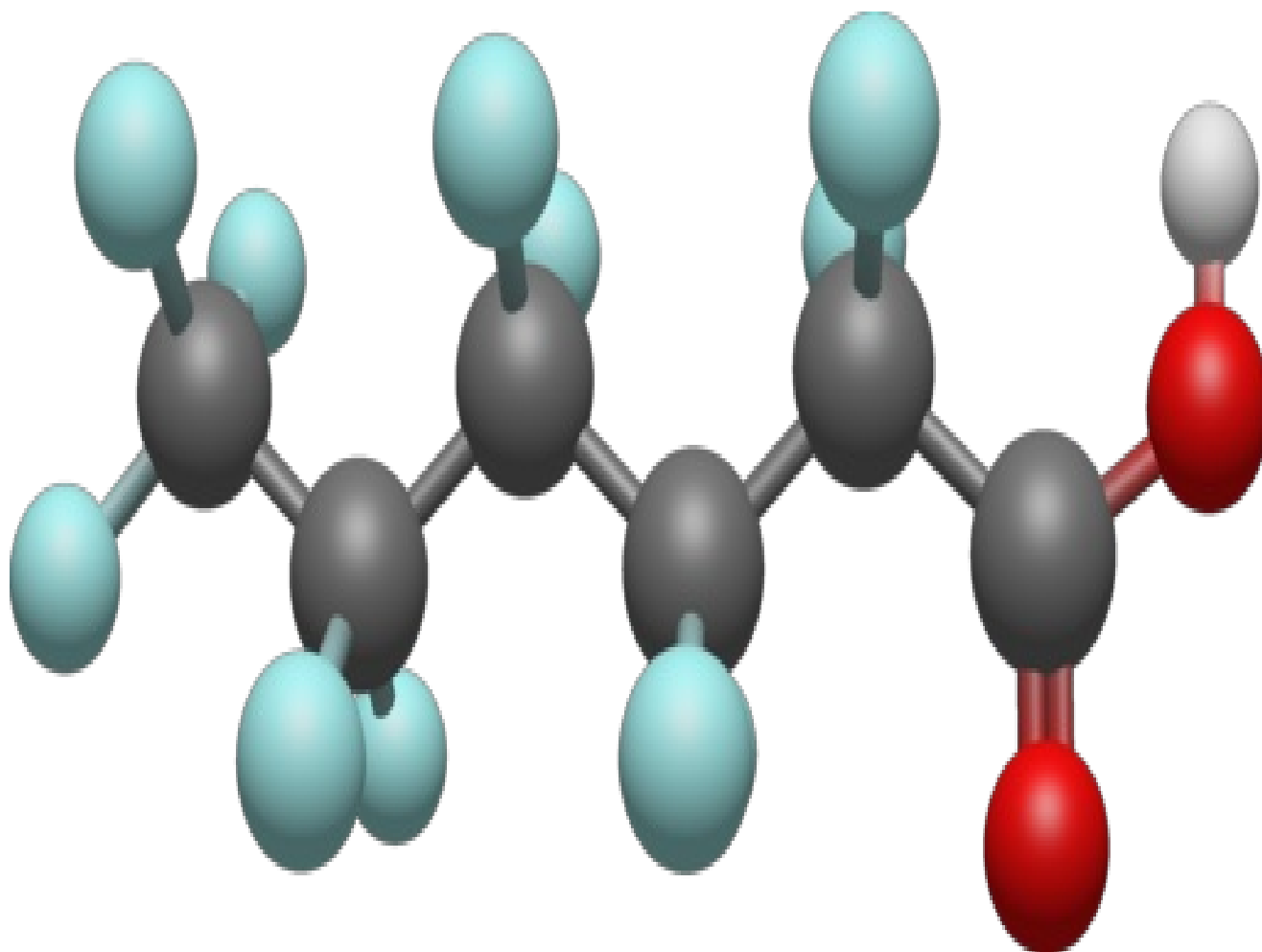


PFAS Properties

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PFAS properties

Per- and polyfluoroalkyl substances (PFAS) are a class of complex, man-made chemicals with strong carbon-fluorine bonds. Since fully fluorinated carbon atoms are present, the material is extremely stable and resistant to heat, chemicals, and deterioration. Their hydrophobic nature (repelling water and oil) is due to the presence of strong carbon-fluorine bonds in their molecular structure, which in turn, contributes to their widespread use in a variety of industrial and consumer applications such as water- and stain-resistant coatings, firefighting foams, clothing, food packaging, and nonstick cookware. The desired chemical stability, on the other hand, contributes to their persistence in the environment and potential bioaccumulation in living creatures, raising concern about their long-term impact on human health.

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