

ammonia (NH3), which is a colorless gas with a strong odor. It is highly soluble in water, forming ammonium hydroxide. Ammonia is used in various industrial processes, including the production of fertilizers, explosives, and pharmaceuticals. It is also a key component in the synthesis of many organic compounds. Ammonia is produced industrially by the Haber-Bosch process, which involves the reaction of nitrogen and hydrogen under high pressure and temperature. The resulting ammonia is then purified and stored in liquid form. Ammonia is also found in nature, where it is produced by certain bacteria and plants. It is an important nutrient for many organisms and plays a role in the nitrogen cycle. Ammonia is also used in the food industry, where it is used to produce various food additives and preservatives. In the environment, ammonia can be a pollutant, particularly in aquatic systems, where it can be toxic to fish and other aquatic life. It can also contribute to the formation of acid rain and other atmospheric pollutants. Overall, ammonia is a versatile and important chemical with a wide range of applications in industry, agriculture, and the environment.

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