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Why Bubbles Fizz When You Open the Lid: Henry's Law

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The moment you twist the cap off a soda, there is a hiss, and small bubbles rise endlessly from the inside of the bottle. You may have wondered why a drink that was clear and quiet while sealed changes so much just because the lid came off. The gas in the bottle did not change; the pressure inside the bottle did. The single equation that explains this is Henry's Law. It states that, at a constant temperature, the amount of gas that dissolves in a liquid is proportional to the pressure of the gas in contact with that liquid, and it applies widely, from a single bottle of soda to diving deep und