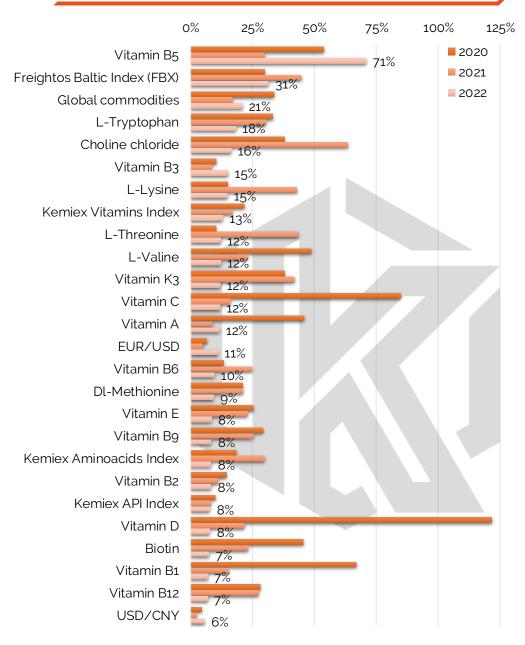


## Aminoacids, vitamins & more

## PRICE VOLATILITY 2022

In 2022, Vitamin B5, L-Tryptophan, Choline chloride, Vitamin B3 and L-Lysine were the most fluctuating raw materials, recording an annualized spot price volatility of about 15–71%. Overall, the average volatility of nutritional additives was somewhat lower at ~14% compared to ~26% in 2021.

4 Jan 2023



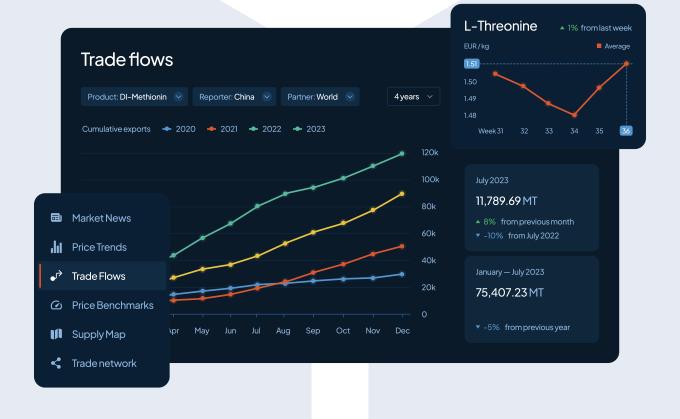
## Annualized price volatility 2020 to 2022 (in %)



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