স্বাদ ও কৌশল

Taste and kitchen tricks

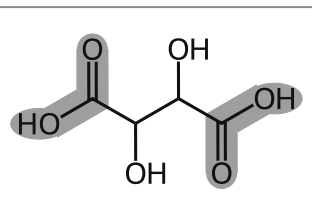
Sour, sweet, salty and bitter, and two tricks you can see and smell.

1 Heat and sting · 2 Aroma · 3 Taste and tricks

The grey glow marks the working part of each molecule.

T স্বাদ TASTE

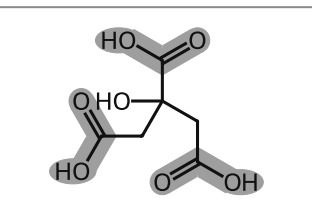
Sour, sweet, salty and bitter



তেঁতুল Tamarind — 150.1 g/mol

Tartaric acid $C_4H_6O_6$ CARBOXYLIC ACID

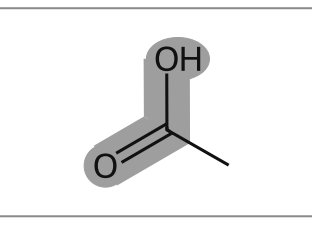
The sour of tamarind. Tamarind is one of the richest natural sources of this acid.



লেবু Lime — 192.1 g/mol

Citric acid $C_6H_8O_7$ CARBOXYLIC ACID

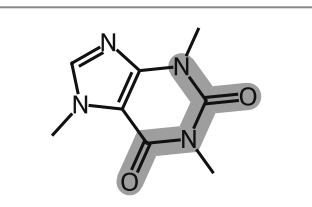
The sour of lime and lemon. A squeeze on fish also tames the smell (see trimethylamine).



সিরকা Vinegar — 60.1 g/mol

Acetic acid $C_2H_4O_2$ CARBOXYLIC ACID

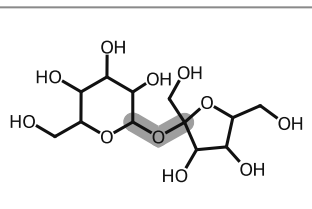
The sharp sour of vinegar, made when bacteria turn alcohol into acid. It is a weak acid.



চা Tea — 194.2 g/mol

Caffeine $C_8H_{10}N_4O_2$ AMIDE

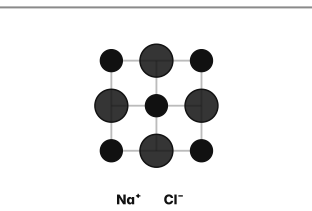
The bitter taste and the wake-up. It blocks the signal in your brain that says you are tired.



চিনি ও গুড় Sugar and gur — 342.3 g/mol

Sucrose $C_{12}H_{22}O_{11}$ ETHER LINK

One glucose joined to one fructose. Table sugar is almost pure sucrose, and gur is mostly sucrose.



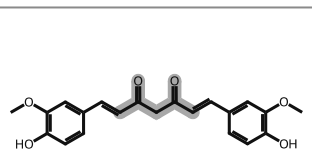
লবণ Salt — 58.4 g/mol

Sodium chloride NaCl IONIC BOND

Not a molecule but a crystal of Na^+ and Cl^- ions. Iodised salt also carries a trace of iodine for the thyroid.

K রান্নাঘরের কৌশল KITCHEN TRICKS

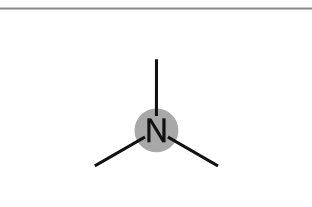
Chemistry you can see and smell



হলুদ Turmeric — 368.4 g/mol

Curcumin $C_{21}H_{20}O_6$ DIKETONE

The golden colour. It is also a natural pH indicator: soap turns a turmeric stain from yellow to red-brown.



মাছ Fish — 59.1 g/mol

Trimethylamine C_3H_9N AMINE

The smell of fish that is going off. It is a base, so lime juice (an acid) turns it into a salt that cannot easily escape as a smell.

HOW TO READ THIS MENU

The molar mass is the price.

Each dish is a kitchen ingredient, and the molecule behind it. On the right is its molar mass in g/mol, the "price" of one mole of it. The small label names its functional group, and the glow in the drawing shows where it sits.

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