How will you solve $\bar{A}\bar{x} = \bar{0}$.

$$\bar{A}_{n \times c} \quad \bar{x}_{c \times 1} = \bar{0}_{n \times 1}$$

Here, n : no. of elements
c : no. of chemical compounds

The above situation can be treated as solution to a set of "n" linear equations in c variables.
And there fore Guass-Jordan method or matrix inversion to amaungst others may be used.

The case in which we get non-trivial solutions is required.

$\Rightarrow$ The chemical eq. cant be balenced when rank $(A) = n$
as that would just give $\bar{x} = \bar{0}$, which is a undiserable pro solution.

$\rightarrow$ numpy·linalg·solve $(\bar{A}_{n \times c}, \bar{0})$
may be used to obtain the solution.

~ Usually, these equation will have infinite solutions as factor a solution into a const. is also a solution. So any one $\bar{x}$ out of all these may be a valid answer.