

Re: chemical equation balancing and stoichiometry calculator

Source: <http://sci.tech-archive.net/Archive/sci.chem/2005-11/msg00369.html>

- *From:* <salmonegg@xxxxxxxxxxxxxx>
 - *Date:* Mon, 28 Nov 2005 02:06:52 GMT
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On 11/27/05 3:12 AM, in article [op.s0wb29iw26l578@borek](#), "Borek" <m.borkowski@xx> wrote:

- > Try it out for free if you are interested:
- >
- > <http://www.chembuddy.com/?left=EBAS&right=equation-balancing-stoichiometry>
- >
- > Balance mass/charge, do stoichiometry calculations, automatically
- > finding limiting reagents. Forget about most tedious tasks – like
- > molar mass calculations, concentration/volume calculations and
- > volume/pressure/temperature conversions, as they are all automated.
- >
- > This program is third in a family – see also pH calculator and concentration
- > calculator on the same site.
- >
- > Best,
- > Borek

To me, it seems like you are doing all the easy things rather than the difficult things. Let me toss out a real life problem I would like to solve. Can you do it?

I raise plants hydroponically using a nutrient mix (inorganic chemicals) in water. As these get used up, the pH drops. I have been compensating for that by adding KOH. I would like that to be more automatic without provide all kinds of feedback electronics.

MY approach is to add a great excess of calcium carbonate (marble chips) to the reservoir. As the pH drops, the CaCO₃ will presumably decompose into bicarbonate and CO₂ in water solution but open to the air. I could also use MgCO₃. Will your software tell me what the equilibrium pH would be under those circumstances?

Bill

-- Ferme le Bush

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