

PLANT Nutrients



CHEMICAL cheat sheet

Atmospheric Gases



-1% argon
 with small amounts of all other gases including 0.04% greenhouse gases

*H₂O is a variable gas that can make up between 0% - 4% of the atmosphere depending on location.

Air Pollutants

Outdoor Air Pollutants - Criteria Pollutants

- SO₂ - sulfur dioxide**
 - *main source: coal burning
 - *reacts with rain to create acid rain
 - *part of industrial smog
- NO₂ - nitrogen dioxide**
 - *main source: transportation - gasoline burning
 - *poisonous gas on its own
 - *creates acid rain when reacting with rain water
 - *part of photochemical smog using UV radiation to produce ozone
- O₃ - ozone**
 - *highly reactive gas
 - *poisonous to breathe
 - *burns respiratory tract
 - *generated by photochemical smog at ground surface
- CO - carbon monoxide**
 - *takes place of oxygen in blood and deprives body of oxygen
 - *high concentrations cause death
- Pb - lead**
 - *heavy metal poisoning
 - *main source: lead smelting and industrial processes
- PM - particulate matter**
 - *solid particles that get blown or burned into the air: soot, sediment, etc.

pH



*Maximum hydrogen ion concentration is 1 Molar (10⁰ moles per liter). The pH scale is logarithmic and 10¹ the same base calculation. pH 7 is a balance of H⁺ to OH⁻ ions.

ACID RAIN

SO_x
 SO₂ & SO₃
(sulfur dioxide & sulfur trioxide)

NO_x
 NO & NO₂
(nitric oxide & nitrogen dioxide)

Chemically combine with H₂O to create acids.

* Contribution of liquid acids (aqueous acid)

$\text{S} + \text{O}_2 \rightarrow \text{SO}_2$ (sulfur dioxide)

$\text{SO}_2 + \text{H}_2\text{O} \rightarrow \text{H}_2\text{SO}_3$ (sulfurous acid)

$\text{SO}_2 + \text{H}_2\text{O} \rightarrow \text{H}_2\text{SO}_4$ (sulfuric acid)

* Contribution of liquid acids (aqueous acid)

$\text{N}_2 + \text{O}_2 \rightarrow 2\text{NO}$ (nitric oxide)

$\text{NO} + \text{O}_2 \rightarrow \text{NO}_2$ (nitrogen dioxide)

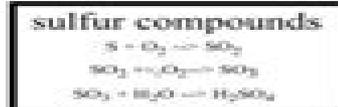
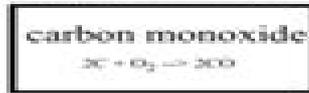
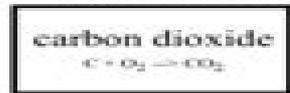
$2\text{NO}_2 + \text{H}_2\text{O} \rightarrow \text{HNO}_2 + \text{HNO}_3$ (nitrous acid / nitric acid)

ACID RAIN:

- Reduces photosynthesis
- Leaches toxic Al ions
- Leaches nutrients from soil
- prevents fish egg hatching (pH 5 or lower in water)
- high acid in pond cause fish kills

Industrial Smog Reactions

Components of industrial smog: carbon dioxide, carbon monoxide, sulfur dioxide, sulfur trioxide, sulfuric acid



Heavy Metals

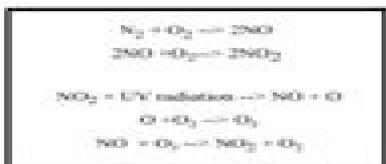
Hg <small>(mercury)</small>	Pb <small>(lead)</small>	As <small>(arsenic)</small>	Cd <small>(cadmium)</small>
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*Heavy metal poisoning: ingestion through food or water and inhaling

*Acute effects: nausea, vomiting, abdominal pain, diarrhea, tingling extremities, shortness of breath, chills, rash

*Chronic: mood change, irritability, teeth and hair loss, slowed mental capacity, mental retardation IQ drop and developmental delays in developing children/fetus, death

Photochemical Smog Reactions



Indoor Air Pollutants

Tobacco smoke - #1 cause of lung cancer

Radon-222 - #2 cause of lung cancer. Radioactive isotope from decaying uranium in rocks. Seeps into basements.

Asbestos - mineral to used for building materials. Carcinogenic, causes respiratory illnesses including mesothelioma (tumors of the lungs, abdomen, and heart) and asbestosis (scarring of lung tissue).

Lead - mainly in food and water, but can be from lead paint chips and dust.

CO - furnaces, gas stoves, gas driers; deprives body of O₂.

VOCs (volatile organic compound) - can be cancerous, in plastics, carpets, aerosol paints, cleaning products, air fresheners, moth balls.

Biological threat - mold, dust mites, pet dander, can cause allergies; some molds toxic.

Wood burning - particulate matter, soot, CO.

Hazmat Chemistry Cheat Sheet

Kathleen Armour



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