



Summary

Determining Unsaturations from a Structure

Double Bond = 1 Unsaturation Ring = 1 Unsaturation Triple Bond = 2 Unsaturations

Determining Unsaturations from a Formula

Use the general formula:

Unsaturations = Saturated # of H – Unsaturated # of H 2

Determine the number of saturated H using:

Saturated # of H: C_nH_{2n+2}

Halogen: add 1H to formula for each halogen. **Nitrogen:** subtract 1H from formula for each nitrogen. **Oxygen:** just ignore any oxygen in the formula.