

Chem 115 Spring 2007

Solution to Assignment 1 Extra Problem

Elements, compounds or mixtures?

1. Compound. There is only one kind of unit (CS_2). Each unit has two different kinds of elements in it (C and S).
2. Element. There is only one kind of element (I in the I_2 units).
3. Mixture. There are two different kinds of units (one is C_6H_6 and the other is I_2).
4. Compound. There is only one kind of unit ($\text{CH}_3\text{CH}_2\text{OH}$ or it could be written $\text{C}_2\text{H}_5\text{OH}$ or $\text{C}_2\text{H}_6\text{O}$). Each unit has three different kinds of elements in it (C, H and O).
5. Mixture. There are two different kinds of units (He and Xe).
6. Element. There is only one kind of element (F in the F_2 units).