

Curiosity Thread: What Can a Mass Tell You?

Curiosity Reading | CheAI Research Inc.

1. A hydrate formula contains an integer number of water molecules, but a mass percent is not an integer. Why do chemists convert to moles before naming a hydrate?
2. What assumption turns a residue mass into a claim about an insoluble component of a mixture?
3. How is a purity calculation similar to a model prediction in stoichiometry? How can both be accurate calculations but incomplete claims?
4. Design one additional data card that would make a composition inference more convincing without asking anyone to perform an experiment.

Use only the supplied paper data and state the boundary of each inference.