



In each of the compounds represented by these formulas every carbon atom is believed to have four valences and every hydrogen atom one.

As the number of carbon atoms in the molecule increases the number of possible forms, isomers so called, multiplies with great rapidity. Of compounds C₇H₁₆ there are 9 forms; for C₈H₁₈, 18; for C₉H₂₀, 35; for C₁₀H₂₂, 75; for C₁₁H₂₄, 159; for C₁₂H₂₆, 355; for C₁₃H₂₈, 802; and for C₁₄H₃₀, 1855 possibilities.¹ There can be no reasonable doubt that the preparation of each and all of these compounds would be possible, and that once formed they would be very stable substances. In truth, no one

¹ Cayley, *Berichte*, 8, 1056 (1875). F. Hermann, *Berichte*, 13, 792 (1880); 30, 2423 (1897); 31, 91 (1898). Losanitsch, *Berichte*, 30, 1917, 3059 (1897). "Optical isomers" are disregarded in the estimate.