| Assignment 1. (Solutions) |
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| 1. Which of the following molecules are chiral? Explain your answer on the basis of improper elements of symmetry. |
| CH3 O NO2 HO OO 3 Y (R) H X(R) (Achiral; 6-plane present) (Clined; H (Achiral X(S) H i (centre X contains a chirality centre trough c4) of symmetry contains a chirality centre trough c4) of symmetry contains |
| 2. Identify Sassis, if any, present in the following molecules; |
| (P) X H X(P) (S) X X (S) CH3 (No S-axis) X(P) (SA present) Centre (S1 axis present) X contains a chiralist centre (S1) |
| J. Assign K/S configuration to the following. |
| CH3 CH3 CH3 CH3 CH3 CH3 CH3 CH3 |
| H - 12 1/3 R pricedes S. 3 AS) R (see usually written as |
| tais is a pseudo person |