Inductive effects Order:

- 1. Relative inductive effects have been experimentally measured with reference to hydrogen,
- 2. increasing order of +/ effect:

$$C(CH_3)_3 > CH(CH_3)_2 > CH_2CH_3 > CH_3 > T > D > H$$

3. decreasing order of -/ effect, as follows:

$$NH_3^+ > NO_2 > CN > SO_3H > CHO > CO >$$

 $COOH > COCI > CONH_2 > F > CI > Br > I >$
 $OH > OR > NH_2 > C_6H_5 > H$

4. The longer the distance, the weaker the effect.

Mesomeric effect Order:

+M EFFECT ORDER:

$$-O^{-} > -NH_2 > -OR > -NHCOR > -OCOR > -Ph > -CH_3 > -F > -CI > -Br > -I$$

-M EFFECT ORDER: