

Ward is referred to as the inductive effect.



An illustration describing the inductive effect that arises in a chloroacetylene molecule is provided above.

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(iii) - Effect (negative effect) → When an electronegative atom, such as a halogen, is introduced to a chain atoms the resulting unequal sharing of electron generates a positive charge which is transmitted through the chain.

Application of inductive effect → the strength of a carboxylic acid depends on the extent of its ionisation constant. the more ionised it is, the stronger it is. As an acid becomes stronger, the numerical value of its  $pK_a$  drops.