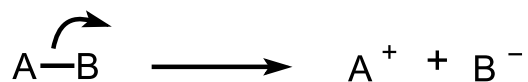


## heterolysis (heterolytic)

The cleavage of a covalent bond so that both bonding electrons remain with one of the two fragments between which the bond is broken, e.g.



Heterolytic bond fission is a feature of many bimolecular reactions in solution (e.g. electrophilic substitution, nucleophilic substitution).

**See also:** homolysis, heterolytic bond-dissociation energy

**Source:**

PAC, 1994, 66, 1077 (*Glossary of terms used in physical organic chemistry (IUPAC Recommendations 1994)*) on page 1120