

## heteroconjugation

1. [obsolete] Association between a base and the conjugate acid of a different base through a hydrogen bond ( $B' \dots HB^+$  or  $A'H \dots A^-$ ). The term has its origin in the conjugate acid–base pair and is in no way related to conjugation of orbitals. Heteroassociation is a more appropriate term.
2. [obsolete] Some authors refer to conjugated systems containing a heteroatom, e.g. pyridine, as 'heteroconjugated systems'. This usage is discouraged since it inappropriately suggests an analogy to homoconjugation, and conflicts with the currently accepted definition of that term.

**Source:**

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