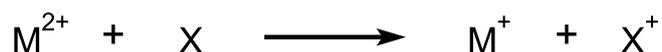


charge-transfer reaction

in mass spectrometry

An ion/neutral species reaction wherein the total charge on the reactant ion is transferred initially to the reactant neutral species so that the reactant ion becomes a neutral entity.

Considering some of the possible reactions of ions M^{2+} , M^+ and M^- with a neutral species X, these would be further categorized as follows:



(Partial charge transfer)



(Charge stripping)



(Charge stripping and charge inversion)

All are ion/neutral species reactions and also charge permutation reactions.

Source:

PAC, 1991, 63, 1541 (*Recommendations for nomenclature and symbolism for mass spectroscopy (including an appendix of terms used in vacuum technology). (Recommendations 1991)*) on page 1555