

electroactive substance

In voltammetry and related techniques, a substance that undergoes a change of oxidation state, or the breaking or formation of chemical bonds, in a *charge-transfer step*.

If an electroactive substance B is formed, in the solution or electrode, by a *chemical reaction* from another substance C, the substance C should be called the precursor of B.

In potentiometry with *ion-selective electrodes*, a material containing, or in ion-exchange equilibrium with, the sensed ion. The electroactive substance is often incorporated in an inert matrix such as poly(vinyl chloride) or silicone rubber.

1985, 57, 1500