

ELECTRON ACCEPTOR, AND REAGENT LAYER AND SENSOR EACH
USING SAME
ABSTRACT

The present invention provides a redox polymer for forming an electrochemical sensor that is suitable for use in measurement over a long period (continuous monitoring) and excellent in stability, or a redox mediator constituting the same. The redox mediator provided by the present invention is a phenothiazine-based compound having a hydrophilic moiety introduced therein, the compound being represented by the general formula (2A) or (2B). The redox polymer provided by the present invention is a phenothiazine-based compound bound to a polymer, the compound being represented by the general formula (3A) or (3B). In the formulas, R^9 and R^{10} are both substituents, or one of these moieties is a substituent, and the other moiety is a hydrogen atom, $R(L)^1$, $R(L)^2$, and $R(L)^4$ to $R(L)^8$ are each independently a predetermined group or atom, $(QP)^1$, $(QP)^2$, and $(QP)^4$ to $(QP)^8$ are each independently a polymeric structure derived from a high molecular weight polymer which is present when their corresponding $R(L)^1$, $R(L)^2$, and $R(L)^4$ to $R(L)^8$ are a specific group.

Figs. 2A, 2B, 3A, 3B