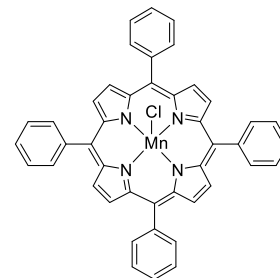


Product Information



24897 Chloride ionophore I

(*meso*-Tetraphenylporphyrin manganese(III)-chloride complex; Mn(II)TPPCI)
Selectophore®, function tested

Electrochemical Transduction

Ion-selective Electrodes

Application 1 and Sensor Type^{1,2}

Assay of Cl⁻ activity with asymmetric cellulose acetate membrane electrode based on Chloride ionophore I. Asymmetric membranes are formed by hydrolyzing the surface of the homogeneous ion-selective membrane by base. This electrode shows decreased interference by salicylate and other hydrophobic anions.

Recommended Membrane Composition

1.00 wt%	Chloride ionophore I (24897)
66.00 wt%	2-Nitrophenyl octyl ether (73732)
33.00 wt%	Cellulose triacetate (22200)

Recommended Cell Assembly

Reference || sample solution || liquid membrane | 0.1 M NaH₂PO₄, 0.1 M Na₂HPO₄, 0.01 M NaCl | AgCl, Ag

¹ Metalloporphyrin-Based Asymmetric Chloride Ion-Selective Membrane Electrodes with Decreased Salicylate Interference. D.S. Oh, D.S. Shin, B. Kim, K.J. Paeng, M.J. Cha, G.S. Cha, J. Kor. Chem. Soc. 37, 1080 (1993).

² Asymmetric cellulose acetate membrane-based carbonate- and chloride-selective electrodes. M.J. Cha, J.H. Shin, B.K. Oh, C.Y. Kim, G.S. Cha, D.S. Shin, B. Kim, Anal. Chim. Acta 315, 311 (1995).

