

Cation adducts of non-ionic surfactants as ion-selective electrode sensors. Jaber, A. M. Y.; Moody, G. J.; Thomas, J. D. R. Chem. Dep., Univ. Wales Inst. Sci. Technol., Cardiff, UK. Proceedings of the Analytical Division of the Chemical Society (1976), 13(11), 328-30. CODEN: PADSDZ ISSN: 0306-1396. Journal written in English. CAN 86:100288 AN 1977:100288 CAPLUS (Copyright (C) 2008 ACS on SciFinder (R))

Abstract

Electrodes were formed of tetraphenylborate salts of Ba adducts with Antarox CO-850, CO-880, and CO-890 in solns. in nitroarom. mediators. The electrodes had good Ba-ion selective properties and were suitable for use in potentiometric titrns. Dioctylphenyl phosphonate dissolves the tetraphenylborate ppts. of poly(propylene glycol) adducts of Ba and Ca which, used in PVC matrix membranes, give a good electrode response. Bulk extrn. consts. of complexes between Antarox CO-880 and alkali and alk. earth metal cations were detd. by the picrate solvent extrn. method between H₂O and CH₂Cl₂.