Capel

High performance capillary electrophoresis system





Determination of **carboxylic acids** in waters and reagents

INTRODUCTION

The use of chemicals in the oil and gas industry helps preventing and solving production issues while enhancing operational efficiency. Key reagents, such as inhibitors of corrosion (including biocorrosion) and salt deposition, are essential for maintaining the integrity of equipment and infrastructure. Laboratory monitoring of the chemical composition of the reagents, including complex ones, along with the control of waste, field, and formation waters, makes it possible to create effective treatment programs for oil and gas extraction.



The method is used to determine the mass concentration of carboxylic

acids (oxalic, formic, tartaric, malic, citric, glycolic, succinic, lactic, acetic, propionic, butyric and isobutyric (in total), isovaleric, valeric, caproic, enanthic) in process (technological), formation, waste waters and reagents by capillary electrophoresis.

MEASUREMENT METHOD

The measurement method is based on capillary zone electrophoresis with indirect UV detection at the wavelength of 254 nm.

EQUIPMENT AND REAGENTS

The Capel capillary electrophoresis system is used in measurements. Data acquisition, collection, processing, and output are performed on a personal computer running the Windows[®] operating system with the Elforun software installed.

EXAMPLES OF ANALYSES





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