## **Turkish Journal of Chemistry**

Turkish Journal	The Effects of Benzoic Acid in Chloride Solutions on the Corrosion of Iron and Aluminum
of	Sibel ZOR
	Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi Kimya Bölümü,
Chemistry	41100, Kocaeli-TURKEY
	e-mail: merve@kou.edu.tr
Keywords Authors	Abstract: In this work, the corrosion behavior of iron and aluminum was investigated in 0.1 M NaCl solutions with an initial pH value of 8 and containing various concentrations (0, 30, 150, 300 ppm) of benzoic acid. For this purpose, the anodic and cathodic semilogarithmic current-potential curves, weight loss and pH of the solution were determined over time. The changes in the concentrations of benzoic acid in the solutions with time were determined by a UV spectrophotometer. According to the results obtained in this investigation, benzoic acid in 0.1 M NaCl acts on iron and aluminum as an inhibitor. This effect gets stronger with increasing concentrations of benzoic acid in 0.1 M NaCl solution.
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chem@tubitak.gov.tr	Turk. J. Chem., <b>26</b> , (2002), 403-408. Full text: <u>pdf</u> Other articles published in the same issue: <u>Turk. J. Chem.,vol.26,iss.3</u> .
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