
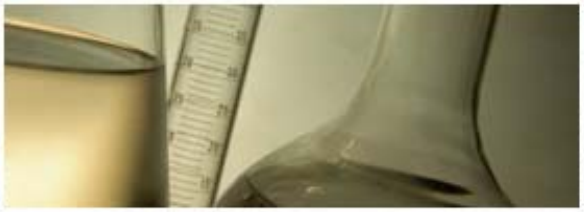

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Research Details :

Research Title	:	*Exthoxylated fatty amines as corrosion inhibitors for corrosion of mild steel in HCl*
		Exthoxylated fatty amines as corrosion inhibitors for corrosion of mild steel in HCl
Descriptipn	:	THE EFFECT of ethoxylated fatty amines on the corrosion behaviour of mild steel-which is used in petroleum pipelines-in I M HCl has been investigated using weight loss and potentiostatic-polarization techniques. The values of inhibition efficiency obtained from the weight-loss measurements was found to be in good agreement with those obtained from the potentiostatic polarization study. They increased with increasing concentration, number of ethylene oxide units, and with decreasing temperature. Inhibition is explained on the basis of adsorption of these compounds on the steel surface through their ethoxy groups, and the adsorption obeys the Langmuir adsorption isotherm. Some thermodynamic parameters were calculated and are discussed.
Research Type	:	Article
Research Year	:	2005
Publisher	:	CORROSION PREVENTION & CONTROL Volume: 52 Issue: 4 Pages: 146-153
Added Date	:	Saturday, June 14, 2008

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