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Corrosion Inhibition Study of Aluminium in Hydrochloric Acid

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Taschenbuch. Book Condition: Neu. 220x150x4 mm. Neuware - A chemical compound that when added to a liquid or gas, decreases the corrosion rate of a material, typically a metal or an alloy is named as corrosion inhibitor. The effectiveness of a corrosion inhibitor depends on fluid composition, quantity of water, and flow regime. A common mechanism for inhibiting corrosion involves formation of a coating, often a passivation layer, which prevents access of the corrosive substance to the metal. Permanent treatments such as chrome plating are not generally considered inhibitors, however corrosion inhibitors are additives to the fluids that surround the metal or related object. This review summarizes synthesis of three Schiff bases (corrosion inhibitors) and their evaluation as corrosion inhibitor for Aluminium in 1N HCl acidic solution. Following are the inhibitors in this study: 1. Salicylidene-4,4'-dimorpholine (SDM) 2. Benzylidene-4,4'-dimorpholine (BDM) 3. p-methoxybenzylidene-4,4'-dimorpholine (p-MDM) 68 pp. Englisch.



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