

## Documents

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**A Review on the Assessment of Imidazo[1,2-a]pyridines As Corrosion Inhibitor of Metals**  
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### Abstract

Imidazo[1,2-a]pyridines find great importance in several commercially available drugs but recently, this derivative has been reported as effective corrosion inhibitors due to their excellent excited state intra-molecular proton transfer which elevates the performances of their adsorption into the metallic surface. In this paper, we have reported a review of some works that investigated the effects of some imidazo[1,2-a]pyridine molecular on corrosion inhibition properties applying different techniques. They reported that the adsorption of this derivative into the steel surface follows the Langmuir isotherm making a strong bond sometimes and linked with physical adsorption another time. The theoretical method and SEM technique have also been reviewed for some molecular inhibitors. © 2018, Springer Nature Switzerland AG.

### Author Keywords

Adsorption; Corrosion; Electrochemical; Imidazopyridine; Steel

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