

Accepted Manuscript

Substituents effect on corrosion inhibition performance of organic compounds in aggressive ionic solutions: A review

Chandrabhan Verma, L.O. Olasunkanmi, Eno E. Ebenso, M.A. Quraishi



PII: S0167-7322(17)34889-4
DOI: <https://doi.org/10.1016/j.molliq.2017.12.055>
Reference: MOLLIQ 8351
To appear in: *Journal of Molecular Liquids*
Received date: 14 October 2017
Revised date: 27 November 2017
Accepted date: 12 December 2017

Please cite this article as: Chandrabhan Verma, L.O. Olasunkanmi, Eno E. Ebenso, M.A. Quraishi , Substituents effect on corrosion inhibition performance of organic compounds in aggressive ionic solutions: A review. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Molliq(2017), <https://doi.org/10.1016/j.molliq.2017.12.055>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**Substituents effect on corrosion inhibition performance of organic compounds
in aggressive ionic solutions: a review**

Chandrabhan Verma^{a,b}, L. O. Olasunkanmi^{a, b,c}, Eno E. Ebenso^{a,b}, M.A. Quraishi^{*d,e}

^aDepartment of Chemistry, School of Chemical and Physical Sciences, Faculty of Natural and Agricultural Sciences, North-West University, Private Bag X2046, Mmabatho 2735, South Africa

^bMaterial Science Innovation & Modelling (MaSIM) Research Focus Area, Faculty of Natural and Agricultural Sciences, North-West University, Private Bag X2046, Mmabatho 2735, South Africa

^cDepartment of Chemistry, Faculty of Science, Obafemi Awolowo University, Ile-Ife 220005, Nigeria

^dCenter of Research Excellence in Corrosion, Research Institute, King Fahd University of Petroleum and Minerals, Dhahran 31261, Saudi Arabia.

^eDepartment of Chemistry, Indian Institute of Technology, Banaras Hindu University, Varanasi 221005, India.

E-mail: *maquraishi.apc@itbhu.ac.in mumtaz.quraishi@kfupm.edu.sa*

Fax: +91-542-2368428; **Tel:** +91-9307025126

Abstract

One of the factors that limit the use of synthetic organic compounds as corrosion inhibitors is the series of trials associated with traditional syntheses that have to be carried out in the course of designing of new and efficient corrosion inhibitors. A large number of synthetic trials are not only cost-ineffective but also time consuming, which involves too many work-ups

Download English Version:

<https://daneshyari.com/en/article/7843188>

Download Persian Version:

<https://daneshyari.com/article/7843188>

[Daneshyari.com](https://daneshyari.com)