

Inhibition of corrosion by a synthetic derivative of pyrazole on the corrosion of mild steel in an aggressive medium and his studies of quantum chemistry

Boudjellal Fayssal¹, H. B. Ouici²

¹*Department of Chemistry, Faculty of Science, University of Saida, Algeria*

²*Department of Chemistry, Faculty of Science, University of Saida, Algeria*

E-mail :fayssal_1982@yahoo.fr

Abstract :

Nitrogen-containing heterocycles are cyclic organic compounds in which one or more types of atoms are found. They are usually carbon and a heteroatom such as oxygen, nitrogen, phosphorus, sulfur, phosphorus, arsenic and silicon. The nomenclature of heterocycles is made by international conventions defined by the International Union of Pure and Applied Chemistry (IUPAC). Heterocyclic compounds are classified according to the nature and number of heteroatoms (saturated heterocycles and partially saturated heterocycles, widely used in chemistry for a large number of cycles) and the number of rings (5- and 6-membered heterocycles). Interdisciplinary fields such as the corrosion inhibitor In this work, the five-chain nitrogen heterocycle was first synthesized, characterized and their influence on corrosion to avoid the degradation of metals.

Keywords— *Synthesis, Characterization, Five-chain nitrogen heterocycles, corrosion inhibition*