



## Comparison of Stability<sup>[Cu(C<sub>7</sub>H<sub>3</sub>NO<sub>4</sub>)<sub>2</sub>]</sup> and Valance / Charge Ratio of Oxygen and Carbon atoms in the Complex by Changing the Vinyl, Acetylene, isopropil

David Collins\*

Department of Chemistry, College of chemistry, Chernivtsi National University, Ukraine.

\*Corresponding Author e-mail Address: [D.collins.chem@yahoo.com](mailto:D.collins.chem@yahoo.com)

Received 8 January 2017; Accepted 10 February 2017; Published 30 March 2017

---

---

### Abstract

In the complex (bispyridine -2 and 6-dicarboxylate copper II) at position H number 26 with modifications of ligands such as vinyl, acetylene and isopropyl, changes in the valance / charge ratio for oxygen and carbon atoms in these complexes have been investigated by methods Initial calculations (ab initio) have been performed at two levels of HF, DFT. Finally, their stability is compared with the tables and charts resulting from the calculations performed.

**Keywords:** bispyridine -2 and 6-dicarboxylate copper II.

---

---