

## عنوان مقاله:

Synthesis and Identification of Copper (II) Complexes using phosphonium salt resulting from the combination of tritylphosphine and ethyl bromoacetate, using stereoscopic methods

## محل انتشار:

چهارمین کنفرانس بین المللی پژوهشهای کاربردی در علوم شیمی و زیست شناسی (سال: 1396)

تعداد صفحات اصل مقاله: 9

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## خلاصه مقاله:

Phosphonium salts have the general formula  $[P^+(R)_3X^-]$  and are derived from the sub-ion (فرمول در متن مقاله). Generally, phosphonium is attributed to an organic derivative, such as tetraphenyl phosphonium chloride and tetra tetra-methyl phosphonium iodide. In this project, the phosphonium compounds  $[C_2H_5COO(CH_2PPh_3Br)]$  and its copper (II) complex  $[C_2H_5COO(CH_2PPh_3Br)]_2[Cu_2Cl_6]$  were prepared and identified. Phosphonium species were prepared from the reaction of ethyl bromoacetate with triphenylphosphine. Then the final compounds were prepared using the reaction between the phosphonium compound with  $Na_2[Cu_2Cl_6]$ . Then, using spectroscopic methods, preparation of these compounds was investigated.

## کلمات کلیدی:

phosphonium, copper (II) compound, triphenylphosphine, ethyl bromoacetate

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/686382>

