Thematic Section: Preparative Chemistry.	Full Paper
Subsection: Organoelemental Chemistry.	Registration Code of Publication: 12-30-5-81

Publication is available for discussion in the framework of the on-line Internet conference "New methods of synthesis, composition and application of organoelemental compounds" http://butlerov.com/synthesys/
Contributed: June 1, 2012.

Triiodide tetraorganylphosphonium [Ph₃RP]⁺ [I₃]⁻ (R = Et, Pr, Am, *i*-Am, Ph, CH₂Ph) и [Ph₃PCH₂CH₂PPh₃]²⁺[I₃]⁻₂·DMSO. Synthesis and Structure.

© Vladimir V. Sharutin,* Vladislav S. Senchurin, Olga K. Sharutina, and Aleksei V. Guschin

¹ National Research South Ural State University. V.I. Lenin St., 76. Chelyabinsk, 454080. Russia.

E-mail: vvsharutin@rambler.ru

² National Research Nizhny Novgorod State University named after N.I. Lobachevsky.

*Supervising author; *Corresponding author

Keywords: triiodide tetraorganylphosphoniuv, synthesis, structure.

Abstract

The reaction of iodides tetraorganylphosphonium Ph_3RPI (R = Et, Pr, n-Am, i-Am, Ph, CH_2Ph), $[Ph_3PCH_2CH_2PPh_3]^{2+}[I]_2^-$ with hexaiodplatinate potassium in dimethyl sulfoxide were synthesized complexes $[Ph_3EtP]^+$ $[I_3]^-$ (II), $[Ph_3PrP]^+$ $[I_3]^-$ (II), $[Ph_3AmP]^+$ $[I_3]^-$ (III), $[Ph_3(i$ -Am) $P]^+$ $[I_3]^-$ (IV), $[Ph_4P]^+$ $[I_3]^-$ (IV), $[Ph_4$