NOVEL 4-CHLORO- OR-4-BROMORESORCINOL-BASED BICYCLIC PHOSPHONATES

Yulia M. Sadykovaa, Larisa M. Sadikovab, Alena V. Zalaltdinovab, Yulia K. Voroninaa, Alexander R. Burilova, Michael A. Pudovika, Jean-Luc [Piratс](https://www.scopus.com/authid/detail.uri?authorId=6701789994&amp;eid=2-s2.0-85047658473)

aArbuzov Institute of Organic and Physical Chemistry of FRC Kazan Scientific Center of RAS

A.E. Arbuzov str. 8, Kazan 420088, Russia,

bKazan National Research Technological University. Karl Marx str. 68, Kazan 420015, Russia

cAM2N, Ecole Supérieure de Chimie de Montpellier, Institut Charles Gerhardt – CNRS UMR 5253, 8 rue de l'Ecole Normale, Montpellier CEDEX 5, France

Email : [jsadykova@mail.ru](mailto:jsadykova@mail.ru)

**Supplemental Materials**



**Figure S 1**: 1H NMR (400 MHz, d6-DMSO) spectra of the mixture of compounds 3a and 4a



**Figure S 2**: 1Н NMR spectra (400 MHz, d6-DMSO) of compound **5а**



**Figure S 3**: 13C-{1H} NMR spectra (100.6 МHz, d6-DMSO) of compound 5а



**Figure S 4**: 1Н NMR spectra (400 MHz,d6-DMSO) of compound **5b**



**Figure S 5**: 13C-{1H} NMR spectra (100.6 МHz, d6-DMSO) of compound **5b**