

Title	Facile synthesis of bis-thiosemicarbazone derivatives as key precursors for the preparation of functionalized bis-thiazoles
Authors	Wael A. A. Arafa and <b>Mohamed G. Badry</b>
Journal Information	Journal of chemical research, <b>2016</b> , <i>40</i> , 387–394
ISSN	1747-5198
Impact factor	0.646

### Abstract

A new class of bis-thiosemicarbazones was designed and synthesized by the condensation of 2,6-diformylphenol derivatives and thiosemicarbazide using either ultrasound or conventional methods. Both thiosemicarbazone groups of these derivatives underwent a heterocyclization process to give a series of novel bis-thiazole derivatives as major products. The structures of all the synthesized compounds were characterized by multinuclear NMR, IR, HRMS and elemental analyses.