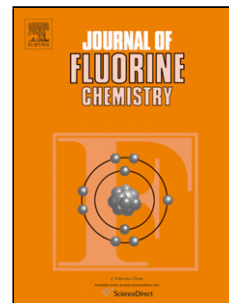


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# SYNTHESIS OF TRIFLUOROMETHYL-CONTAINING OXO(THIOXO)IMIDAZOTHIAZOLONES AND THIOGLYCOLURILS BASED ON PERFLUOROBIACETYL

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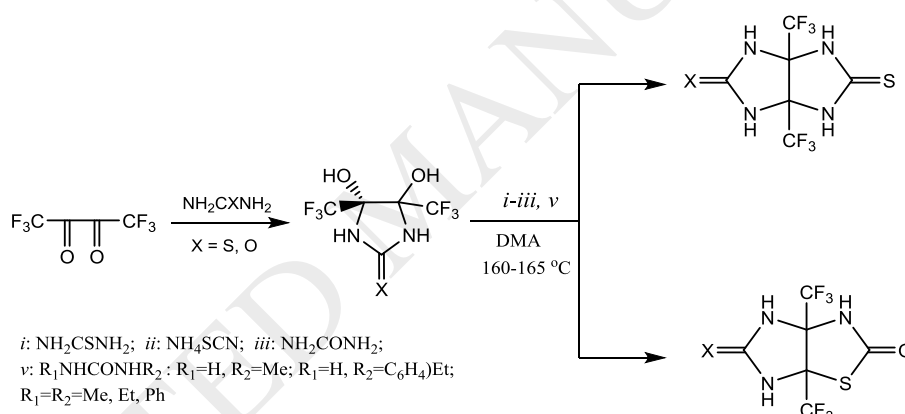
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## Graphical abstract



## Highlights

- 4,5-Dihydroxy-4,5-bis(trifluoromethyl)imidazolidine-2-thione was obtained through the reaction of perfluorobiacetyl with thiourea. Trifluoromethylated thioxo(oxo)imidazothiazolones were obtained by the condensation of 4,5-dihydroxy-4,5-bis(trifluoromethyl)imidazolidine-2-thione(one) with thiourea,  $\text{NH}_4\text{SCN}$  and *N*-substituted ureas. The condensation of 4,5-dihydroxy-4,5-bis(trifluoromethyl)imidazolidine-2-thione with urea gave mainly trifluoromethyl-containing thioxyglycoluril.

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