

Selective sensing of Hg²⁺ ion by N-bridged ligand

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Abstract: Mercury is one of the most dangerous metal ions from environmental, health and agricultural point of view. Therefore, selective sensing of mercury is very crucial and challenging task.

In this presentation, we will discuss about selective sensing of Hg²⁺ ion by N-bridged neutral ligand from mechanistic point of view. In the present sensing, the original ligand is fluorescent and only in the presence of Hg²⁺ ion the yellow colour solution of ligand turns to violet colour and thus it works in switch-off mode.

Key words: N-bridged ligand; mercury sensing, switch-off sensing.

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