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Effect of impurities on the triple point of mercury

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[metal impurities triple point of mercury validation measurements](#)

Abstract

The article is a summary of four months of scientific work in Centro Español de Metrología (CEM). Research were realized under an individual grant (Researcher Mobility Grant) performed within European Metrology Research Programme, co-funded by the European Union. The aim of this study was to provide additional results to the joint research project JRP SIB10 NOTED (Novel Techniques for Traceable Temperature Dissemination), by performing experiments with doped cells. The main task was to study the influence of metal impurities with known concentrations on the realization of the triple point of mercury and validation measurements previously performed by CEM. The article discusses the progress of work from the performance of the triple point of mercury cells, doping by impurities with known values and the measurements.

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