

**Manual of Petroleum  
Measurement Standards  
Chapter 11—Physical Properties Data**

**Section 4—Properties of Reference Materials**

**Part 1—Density of Water and Water Volumetric  
Correction Factors for Water Calibration of  
Volumetric Provers**

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# Chapter 11—Physical Properties Data

## Section 4—Properties of Reference Materials

### Part 1—Density of Water and Water Volumetric Correction Factors for Water Calibration of Volumetric Provers

#### 1 Introduction

This standard specifies the density of water equation to be used in all applicable API MPMS standards. It also specifies the volume correction factor equation for water and demonstrates its use for water calibration of provers and pycnometers.

#### 2 Scope

This standard is applicable to all API standards that use the density of water or its volumetric correction factors.

#### 3 References

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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<sup>1</sup> ASTM International, 100 Barr Harbor Drive, West Conshohocken, Pennsylvania 19428, [www.astm.org](http://www.astm.org).