



Designation: D1550 – 18

Standard ASTM Butadiene Measurement Tables¹

This standard is issued under the fixed designation D1550; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope*

1.1 The ASTM Butadiene Measurement Tables are for use in the calculation of quantities of butadiene. The accompanying **Tables 1-3** cover the normal operating ranges for the reduction of observed relative density and volume to 15.556/15.556 °C (60/60 °F) and for the calculation of weight-volume relationships of butadiene.

1.2 These tables are applicable to both butadiene and butadiene concentrates (minimum of 60 % butadiene).

NOTE 1—These tables replace the existing tables in the National Institute of Standards and Technology *Letter Circulars LC-736* and *LC-757* and the Rubber Reserve Corp., Butadiene Laboratory Manual.

1.3 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.4 *This international standard was developed in accordance with internationally recognized principles on standard-*

ization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.

2. Referenced Documents

2.1 *ASTM Standards:*²

D1250 *Guide for Use of the Petroleum Measurement Tables*

2.2 *API Standards:*³

MPMS Chapter 11.4.1 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

MPMS Chapter 11.5 Manual of Petroleum Measurement Standards Chapter 11—Physical Properties Data Section 5—Density/Weight/Volume Intraconversion Part 1—Conversions of API Gravity at 60 °F

3. Significance and Use

3.1 Accurate knowledge of the weight and volume of butadiene is necessary for the orderly manufacture, storage, transfer, and sale of the material. These tables are suitable for use in these and similar aspects of butadiene commerce.

¹ This standard is under the jurisdiction of ASTM Committee D02 on Petroleum Products, Liquid Fuels, and Lubricants and the API Committee on Petroleum Measurement, and is the direct responsibility of Subcommittee D02.02 /COMQ the joint ASTM-API Committee on Hydrocarbon Measurement for Custody Transfer (Joint ASTM-API). This standard has been approved by the sponsoring committees and accepted by the Cooperating Societies in accordance with established procedures.

Current edition approved Oct. 1, 2018. Published December 2018. Originally approved in 1958. Last previous edition approved in 2015 as D1550 – 94 (2015). DOI: 10.1520/D1550-18.

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ Available from American Petroleum Institute (API), 1220 L. St., NW, Washington, DC 20005-4070, <http://www.api.org>.

*A Summary of Changes section appears at the end of this standard