



Designation: D 4952 – 9702

An American National Standard

Standard Test Method for Qualitative Analysis for Active Sulfur Species in Fuels and Solvents (Doctor Test)¹

This standard is issued under the fixed designation D 4952; 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.

This standard has been approved for use by agencies of the Department of Defense.

¹ This test method is under the jurisdiction of ASTM Committee D-2, D02 on Petroleum Products and Lubricants and is the direct responsibility of Subcommittee D02.03 on Elemental Analysis.

Current edition approved Nov. 10, 1997; 2002. Published September 1998; January 2003. Originally published as D 4952-89; approved in 1989. Last previous edition approved in 1997 as D 4952-967.

1. Scope *

1.1 This test method is intended primarily for the detection of mercaptans in motor fuel, kerosine, and similar petroleum products. ~~For example see Specification D 235. This method may also provide information on hydrogen sulfide and elemental sulfur that may be present in these sample types.~~

1.2 The values stated in acceptable SI units are to be regarded as standard.

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 and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:

D 211935 Specification for Mineral Spirits (Petroleum Spirits) (Hydrocarbon Dry Cleaning Solvent) Reagent Water²

D-1193 Specification for Reagent Water³

~~D-3227~~ Test 3227 Test Method for Thiol Mercaptan Sulfur in Gasoline, Kerosine, Aviation Turbine, and Distillate Fuels (Potentiometric Method)³

² Annual Book of ASTM Standards, Vol 06.04, 11.01.

³ Annual Book of ASTM Standards, Vol 11.01, 05.01.

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