

ASTM Volume 06.04, March 2017

Paint—Solvents; Aromatic; Industrial, Specialty and Related Chemicals

Table of Contents

D235-02(2012) Standard Specification for Mineral Spirits (Petroleum Spirits) (Hydrocarbon Dry Cleaning Solvent)

D268-01(2012) Standard Guide for Sampling and Testing Volatile Solvents and Chemical Intermediates for Use in Paint and Related Coatings and Material

D304-11 Standard Specification for n-Butyl Alcohol (Butanol)

D329-07(2013) Standard Specification for Acetone

D330-07(2013) Standard Specification for 2-Butoxyethanol

D331-11 Standard Specification for 2-Ethoxyethanol

D600-07(2012) Standard Specification for Liquid Paint Driers

D608-05(2011) Standard Specification for Dibutyl Phthalate

D740-11 Standard Specification for Methyl Ethyl Ketone

D770-11 Standard Specification for Isopropyl Alcohol

D841-13 Standard Specification for Nitration Grade Toluene

D843-16 Standard Specification for Nitration Grade Xylene

D847-16 Standard Test Method for Acidity of Benzene, Toluene, Xylenes, Solvent Naphthas, and Similar Industrial Aromatic Hydrocarbons

D848-14 Standard Test Method for Acid Wash Color of Industrial Aromatic Hydrocarbons

D849-15 Standard Test Method for Copper Strip Corrosion by Industrial Aromatic Hydrocarbons

D850-16 Standard Test Method for Distillation of Industrial Aromatic Hydrocarbons and Related Materials

D852-16 Standard Test Method for Solidification Point of Benzene

D891-09 Standard Test Methods for Specific Gravity, Apparent, of Liquid Industrial Chemicals

D1007-11 Standard Specification for sec-Butyl Alcohol

D1078-11 Standard Test Method for Distillation Range of Volatile Organic Liquids

D1133-13 Standard Test Method for Kauri-Butanol Value of Hydrocarbon Solvents

D1152-06(2012) Standard Specification for Methanol (Methyl Alcohol)

D1153-12 Standard Specification for Methyl Isobutyl Ketone

D1209-05(2011) Standard Test Method for Color of Clear Liquids (Platinum-Cobalt Scale)

D1257-07(2012) Standard Specification for High-Gravity Glycerin

D1296-01(2012) Standard Test Method for Odor of Volatile Solvents and Diluents

D1353-13 Standard Test Method for Nonvolatile Matter in Volatile Solvents for Use in Paint, Varnish, Lacquer, and Related Products

D1363-06(2011) Standard Test Method for Permanganate Time of Acetone and Methanol

D1364-02(2012) Standard Test Method for Water in Volatile Solvents (Karl Fischer Reagent Titration Method)

D1476-02(2012) Standard Test Method for Heptane Miscibility of Lacquer Solvents

D1492-13 Standard Test Method for Bromine Index of Aromatic Hydrocarbons by Coulometric Titration

D1555M-08e1 Standard Test Method for Calculation of Volume and Weight of Industrial Aromatic Hydrocarbons and Cyclohexane [Metric]

D1555-09 Standard Test Method for Calculation of Volume and Weight of Industrial Aromatic Hydrocarbons and Cyclohexane

D1613-06(2012) Standard Test Method for Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer, and Related Products

D1614-09 Standard Test Method for Alkalinity in Acetone

D1617-07(2012) Standard Test Method for Ester Value of Solvents and Thinners

D1718-09 Standard Specification for Isobutyl Acetate (95% Grade)

D1719-11 Standard Specification for Isobutyl Alcohol

D1720-03(2012) Standard Test Method for Dilution Ratio of Active Solvents in Cellulose Nitrate Solutions

D1722-09 Standard Test Method for Water Miscibility of Water-Soluble Solvents

D1836-07(2013) Standard Specification for Commercial Hexanes

D1969-07(2012) Standard Specification for 2-Ethylhexanol

D2086-08(2012) Standard Test Method for Acidity in Vinyl Acetate and Acetaldehyde

D2087-06(2012) Standard Test Method for Iron in Formaldehyde Solutions

D2119-09 Standard Test Method for Aldehydes in Styrene Monomer

D2121-16 Standard Test Methods for Polymer Content of Styrene Monomer

D2190-07(2013) Standard Specification for Vinyl Acetate

D2191-06(2012) Standard Test Method for Acetaldehyde Content of Vinyl Acetate

D2192-06(2012) Standard Test Method for Purity of Aldehydes and Ketones

D2193-06(2012) Standard Test Method for Hydroquinone in Vinyl Acetate

D2194-02(2012) Standard Test Method for Concentration of Formaldehyde Solutions

D2232-14 Test Method for Evaporation Residue of Naphthalene

D2340-13 Standard Test Method for Peroxides in Styrene Monomer

D2359-16 Standard Specification for Refined Benzene-535

D2378-07(2012) Standard Specification for Formaldehyde 50 % Grade Uninhibited and 37 % Grade Inhibited and Uninhibited

D2379-09 Standard Test Method for Acidity of Formaldehyde Solutions

D2380-04(2011) Standard Test Method for Methanol Content of Formaldehyde Solutions

D2439-16 Standard Specification for Refined Phenol

D2627-08(2012) Standard Specification for Diacetone Alcohol

D2634-07(2013) Standard Specification for Methyl Amyl Acetate (95 % Grade)

D2635-07(2012) Standard Specification for Methyl Isobutyl Carbinol

D2636-07(2012) Standard Specification for Hexylene Glycol

D2693-07(2012) Standard Specification for Ethylene Glycol

D2694-05(2011) Standard Specification for Diethylene Glycol

D2804-02(2012) Standard Test Method for Purity of Methyl Ethyl Ketone By Gas Chromatography

D2827-13 Standard Specification for Styrene Monomer

D2916-09 Standard Specification for Isophorone

D2917-07(2013) Standard Specification for Methyl Isoamyl Ketone

D3125-06(2012) Standard Test Method for Monomethyl Ether of Hydroquinone in Colorless Monomeric Acrylate Esters and Acrylic Acid

D3128-07(2013) Standard Specification for 2-Methoxyethanol

D3130-11 Standard Specification for *n*-Propyl Acetate (96 % Grade)

D3131-07(2013) Standard Specification for Isopropyl Acetate (99 % Grade)

D3160-16 Standard Test Method for Phenol Content of Cumene (Isopropylbenzene) or AMS (α -Methylstyrene)

D3193-09(2015) Standard Specification for Ethylbenzene

D3257-06(2012) Standard Test Methods for Aromatics in Mineral Spirits by Gas Chromatography

D3329-03(2009) Standard Test Method for Purity of Methyl Isobutyl Ketone by Gas Chromatography

D3437-15 Standard Practice for Sampling and Handling Liquid Cyclic Products

D3438-15 Standard Practice for Sampling and Handling Naphthalene, Maleic Anhydride, and Phthalic Anhydride

D3505-12e1 Standard Test Method for Density or Relative Density of

Pure Liquid Chemicals

D3540-12 Standard Specification for Primary Amyl Acetate, Synthetic (98 % Grade)

D3545-06(2012) Standard Test Method for Alcohol Content and Purity of Acetate Esters by Gas Chromatography

D3546-05(2011) Standard Test Method for Formic Acid in Glacial Acetic Acid

D3548-09 Standard Specification for Ethyl Acrylate

D3620-04(2009) Standard Specification for Glacial Acetic Acid

D3622-11 Standard Specification for 1-Propanol (*n*-Propyl Alcohol)

D3728-08(2012) Standard Specification for 2-Ethoxyethyl Acetate (99 % Grade)

D3734-05(2010) Standard Specification for High-Flash Aromatic Naphthas

D3735-07(2012) Standard Specification for VM&P Naphthas

D3760-13 Standard Test Method for Analysis of Isopropylbenzene (Cumene) by Gas Chromatography

D3852-16 Standard Practice for Sampling and Handling Phenol, Cresols, and Cresylic Acid

D3893-03(2009) Standard Test Method for Purity of Methyl Amyl Ketone and Methyl Isoamyl Ketone by Gas Chromatography

D4077-16 Standard Specification for Cumene (Isopropylbenzene)

D4297-15 Standard Practice for Sampling and Handling Bisphenol A(4,4' - Isopropylidenediphenol)

D4360-11 Standard Specification for Methyl *n*-Amyl Ketone

D4367-02(2012) Standard Test Method for Benzene in Hydrocarbon Solvents by Gas Chromatography

D4416-09 Standard Specification for Acrylic Acid

D4471-10 Standard Test Method for Pyridine Bases in Cresylic Acid by Direct Titration

D4492-10 Standard Test Method for Analysis of Benzene by Gas Chromatography

D4493-16 Standard Test Method for Solidification Point of Bisphenol A(4,4' - Isopropylidenediphenol)

D4590-13 Standard Test Method for Colorimetric Determination of Butylcatechol In Styrene Monomer or AMS (α -Methylstyrene) by Spectrophotometry

p-tert -

D4614-11 Standard Specification for Ethyl Acetate (All Grades)

D4615-12 Standard Specification for *n*-Butyl Acetate (All Grades)

D4709-07(2012) Standard Specification for Methyl Acrylate

D4710-07(2012) Standard Specification for Acetaldehyde

D4734-16 Standard Specification for Refined Benzene-545

D4735-15 Standard Test Method for Determination of Trace Thiophene in Refined Benzene by Gas Chromatography

D4773-02(2012) Standard Test Method for Purity of Propylene Glycol Monomethyl Ether, Dipropylene Glycol Monomethyl Ether, and Propylene Glycol Monomethyl Ether Acetate

D4789-12 Standard Test Method for Solution Color of Bisphenol A (4,4'-Isopropylidenediphenol)

D4790-14 Standard Terminology of Aromatic Hydrocarbons and Related Chemicals

D4835-08(2012) Standard Specification for Propylene Glycol Monomethyl Ether Acetate

D4836-09 Standard Specification for Dipropylene Glycol Monomethyl Ether

D4837-07(2012) Standard Specification for Propylene Glycol Monomethyl Ether

D5008-07(2012) Standard Test Method for Ethyl Methyl Pentanol Content and Purity Value of 2-Ethylhexanol By Gas Chromatography

D5060-12 Standard Test Method for Determining Impurities in High-Purity Ethylbenzene by Gas Chromatography

D5135-16e1 Standard Test Method for Analysis of Styrene by Capillary Gas Chromatography

D5136-09(2013) Standard Specification for High Purity p-Xylene

D5137-07(2013) Standard Specification for Hexyl Acetate

D5164-05(2011) Standard Specification for Propylene Glycol and Dipropylene Glycol

D5194-13 Standard Test Method for Trace Chloride in Liquid Aromatic Hydrocarbons

D5211-16 Standard Specification for Xylenes for p-Xylene Feedstock

D5309-16 Standard Specification for Cyclohexane 999

D5310-10(2014) Standard Test Method for Tar Acid Composition by Capillary Gas Chromatography

D5386-10 Standard Test Method for Color of Liquids Using Tristimulus Colorimetry

D5399-09 Standard Test Method for Boiling Point Distribution of Hydrocarbon Solvents by Gas Chromatography

D5471-16 Standard Specification for O-Xylene 980

D5606-16 Standard Specification for Toluene for Toluene Diisocyanate (TDI) Feedstock

D5713-14 Standard Test Method for Analysis of High Purity Benzene for Cyclohexane Feedstock by Capillary Gas Chromatography

D5776-14a Standard Test Method for Bromine Index of Aromatic Hydrocarbons by Electrometric Titration

D5808-09a(2014) Standard Test Method for Determining Chloride in

Aromatic Hydrocarbons and Related Chemicals by Microcoulometry

D5871-16 Standard Specification for Benzene for Cyclohexane Feedstock

D5917-15e1 Standard Test Method for Trace Impurities in Monocyclic Aromatic Hydrocarbons by Gas Chromatography and External Calibration

D6142-16 Standard Test Method for Analysis of Phenol by Capillary Gas Chromatography

D6143-13 Standard Test Method for Iron Content of Bisphenol A (4,4'-Isopropylidenediphenol)

D6144-13 Standard Test Method for Analysis of AMS (α -Methylstyrene) by Capillary Gas Chromatography

D6229-06(2010) Standard Test Method for Trace Benzene in Hydrocarbon Solvents by Capillary Gas Chromatography

D6367-16 Standard Specification for AMS (α -Methylstyrene)

D6526-12 Standard Test Method for Analysis of Toluene by Capillary Column Gas Chromatography

D6563-12 Standard Test Method for Benzene, Toluene, Xylene (BTX) Concentrates Analysis by Gas Chromatography

D6621-00(2012) Standard Practice for Performance Testing of Process Analyzers for Aromatic Hydrocarbon Materials

D6875-12 Standard Test Method for Solidification Point of Industrial Organic Chemicals by Thermistor

D7011-15 Standard Test Method for Determination of Trace Thiophene in Refined Benzene by Gas Chromatography and Sulfur Selective Detection

D7057-13 Standard Test Method for Analysis of Isopropylbenzene (Cumene) by Gas Chromatography (External Standard)

D7090-04(2010) Standard Test Method for Purity of Isophorone by Capillary Gas Chromatography

D7124-16 Standard Specification for Benzene for Use with Zeolite Based Catalysts

D7125-16 Standard Specification for Cumene (Isopropylbenzene) Manufactured Via a Zeolite Process

D7183-16 Standard Test Method for Determination of Total Sulfur in Aromatic Hydrocarbons and Related Chemicals by Ultraviolet Fluorescence

D7184-15 Standard Test Method for Ultra Low Nitrogen in Aromatic Hydrocarbons by Oxidative Combustion and Reduced Pressure Chemiluminescence Detection

D7185-16 Standard Specification for Low Toluene Low Dioxane (LTLD) Benzene

D7266-13e1 Standard Test Method for Analysis of Cyclohexane by Gas Chromatography (External Standard)

D7359-14a Standard Test Method for Total Fluorine, Chlorine and Sulfur in Aromatic Hydrocarbons and Their Mixtures by Oxidative Pyrohydrolytic Combustion followed by Ion Chromatography Detection (Combustion Ion

Chromatography-CIC)

D7360-11 Standard Test Method for Analysis of Benzene by Gas Chromatography with External Calibration

D7375-08 Standard Test Method for Trace Quantities of Water in Aromatic Hydrocarbons and Their Mixtures by Coulometric Karl Fischer Titration

D7457-12 Standard Test Method for Determining Chloride in Aromatic Hydrocarbons and Related Chemicals by Microcoulometry

D7504-16 Standard Test Method for Trace Impurities in Monocyclic Aromatic Hydrocarbons by Gas Chromatography and Effective Carbon Number

D7536-16 Standard Test Method for Chlorine in Aromatics by Monochromatic Wavelength Dispersive X-ray Fluorescence Spectrometry

D7704-16 Standard Test Method for Total Aldehydes in Styrene Monomer by Potentiometric Titration

D7871-13 Standard Test Method for Analysis of Cyclohexane by Gas Chromatography (Effective Carbon Number)

D7881-13 Standard Test Method for Determination of 4-Carboxybenzaldehyde and p-Toluic Acid in Purified Terephthalic Acid by Capillary Electrophoresis with Reverse Voltage Mode

D7882-13 Standard Test Method for Determination of 4-Carboxybenzaldehyde and p-Toluic Acid in Purified Terephthalic Acid by Capillary Electrophoresis with Normal Voltage Mode

D7883-13 Standard Test Method for Determination of 4-Carboxybenzaldehyde and p-Toluic Acid in Purified Terephthalic Acid by Weak Anion Exchange High Performance Liquid Chromatography

D7884-13 Standard Test Method for Determination of 4-Carboxybenzaldehyde and p-Toluic Acid in Purified Terephthalic Acid by Reverse Phase High Performance Liquid Chromatography

D7951-14 Standard Specification for Disproportionation (TDP) Toluene

D7976-14 Standard Specification for Purified Terephthalic Acid (PTA)

D7977-14 Standard Test Methods for Polymer Content of AMS (α -Methylstyrene)

D8005-15 Standard Test Method for Color of Clear Liquids (Platinum-Cobalt Scale)

D8031-16 Standard Test Method for Acid Number of Terephthalic Acid (TA) by Automatic Potentiometric Titration

D8032-16 Standard Test Method for Acid Number of Terephthalic Acid by Color-Indicator Titration

E70-07(2015) Standard Test Method for pH of Aqueous Solutions With the Glass Electrode

E200-16 Standard Practice for Preparation, Standardization, and Storage of Standard and Reagent Solutions for Chemical Analysis

E202-12 Standard Test Methods for Analysis of Ethylene Glycols and Propylene Glycols

E203-16 Standard Test Method for Water Using Volumetric Karl Fischer Titration

E222-10 Standard Test Methods for Hydroxyl Groups Using Acetic Anhydride Acetylation

E223-16 Standard Test Methods for Analysis of Sulfuric Acid

E224-16 Standard Test Methods for Analysis of Hydrochloric Acid

E256-09 Standard Test Method for Chlorine in Organic Compounds by Sodium Peroxide Bomb Ignition

E258-07(2015) Standard Test Method for Total Nitrogen in Organic Materials by Modified Kjeldahl Method

E291-09 Standard Test Methods for Chemical Analysis of Caustic Soda and Caustic Potash (Sodium Hydroxide and Potassium Hydroxide)

E298-08 Standard Test Methods for Assay of Organic Peroxides

E299-08 Standard Test Method for Trace Amounts of Peroxides In Organic Solvents

E300-03(2009) Standard Practice for Sampling Industrial Chemicals

E324-16 Standard Test Method for Relative Initial and Final Melting Points and the Melting Range of Organic Chemicals

E346-08e1 Standard Test Methods for Analysis of Methanol

E359-10 Standard Test Methods for Analysis of Soda Ash (Sodium Carbonate)

E394-15 Standard Test Method for Iron in Trace Quantities Using the 1,10-Phenanthroline Method

E410-08 Standard Test Method for Moisture and Residue in Liquid Chlorine

E411-12 Standard Test Method for Trace Quantities of Carbonyl Compounds with 2,4-Dinitrophenylhydrazine

E449-08(2013) Standard Test Methods for Analysis of Calcium Chloride

E475-16 Standard Test Method for Assay of Di-tert-Butyl Peroxide Using Gas Chromatography

E506-08 Standard Test Method for Mercury in Liquid Chlorine

E534-13 Standard Test Methods for Chemical Analysis of Sodium Chloride

E538-98(2008) Standard Test Method for Mercury in Caustic Soda (Sodium Hydroxide) and Caustic Potash (Potassium Hydroxide)

E611-08(2015)e1 Standard Test Methods for Low Concentrations of Diethylene Glycol in Ethylene Glycol by Gas Chromatography

E649-00(2011) Standard Test Method for Bromine in Chlorine

E806-08 Standard Test Method for Carbon Tetrachloride and Chloroform in Liquid Chlorine by Direct Injection (Gas Chromatographic Procedure)

E1064-16 Standard Test Method for Water in Organic Liquids by Coulometric Karl Fischer Titration

E1090-08 Standard Test Method for Dicumyl Peroxide and Dicumyl Peroxide Decomposition Products in Resins

E1119-09(2015)e1 Standard Specification for Industrial Grade Ethylene Glycol

E1120-16 Standard Specification for Liquid Chlorine

E1146-16 Standard Specification for Muriatic Acid (Technical Grade Hydrochloric Acid)

E1228-09 Standard Test Method for Assay of Peroxy Esters-Catalyzed Iodometric Procedure

E1229-16 Standard Specification for Calcium Hypochlorite

E1456-08 Standard Specification for Caustic Potash; Solid (Potassium Hydroxide; Solid)

E1547-09 Standard Terminology Relating to Industrial and Specialty Chemicals

E1584-11 Standard Test Method for Assay of Nitric Acid

E1615-16 Standard Test Method for Iron in Trace Quantities Using the FerroZine Method

E1616-08 Standard Test Method for Analysis of Acetic Anhydride Using Gas Chromatography

E1746-08 Standard Test Method for Sampling and Analysis of Liquid Chlorine for Gaseous Impurities

E1754-08 Standard Test Method for Determination of Low Levels of Water in Liquid Chlorine By Infrared Spectrophotometry

E1786-08 Standard Test Method for Determination of Low Levels of Water in Liquid Chlorine by On-Line Infrared Spectrophotometry

E1787-16 Standard Test Method for Anions in Caustic Soda and Caustic Potash (Sodium Hydroxide and Potassium Hydroxide) by Ion Chromatography

E1788-16 Standard Test Method for Acidity in Acrylonitrile

E1899-16 Standard Test Method for Hydroxyl Groups Using Reaction with p-Toluenesulfonyl Isocyanate (TSI) and Potentiometric Titration with Tetrabutylammonium Hydroxide

E2036-15 Standard Test Method for Nitrogen Trichloride in Liquid Chlorine by High Performance Liquid Chromatography (HPLC)

E2037-15 Standard Test Method for Bromine Chloride in Liquid Chlorine by High Performance Liquid Chromatography (HPLC)

E2193-16 Standard Test Method for Ultraviolet Transmittance of Monoethylene Glycol (using Ultraviolet Spectrophotometry)

E2313-15 Standard Test Method for Aldehydes in Mono-, Di-, and Triethylene Glycol (using Spectrophotometry)

E2409-13 Standard Test Method for Glycol Impurities in Mono-, Di-, Tri- and Tetraethylene Glycol and in Mono- and Dipropylene Glycol (Gas Chromatographic Method)

E2469-16 Standard Test Method for Chloride in Mono-, Di- and Tri-

ethylene Glycol by Ion Chromatography

E2470-09(2015)e1 Standard Specification for Polyester Grade Ethylene Glycol

E2664-16 Standard Test Method for Methanol Wall Wash of Marine Vessels Handling Polyester Grade Monoethylene Glycol

E2679-09(2016)e1 Standard Test Method for Acidity in Mono-, Di-, Tri- and Tetraethylene Glycol by Non-Aqueous Potentiometric Titration

E2680-16 Standard Test Method for Appearance of Clear, Transparent Liquids (Visual Inspection Procedure)