



Standard Specification for Vapor-Degreasing Grade and General Grade *normal*-Propyl Bromide¹

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1. Scope

1.1 This specification covers vapor-degreasing grade and general solvent grade *normal*-propyl bromide (*n*PB). High-purity grades of *n*PB are available but should not be evaluated by this specification.

1.2 Blends and azeotropic mixtures of *n*PB for vapor-degreasing and general solvent grades should be blended from *n*PB meeting this specification.

NOTE 1—Practices D 3844 and D 4276 and MNL2² provide additional important information on vapor degreasing and solvent properties.

2. Referenced Documents

2.1 ASTM Standards:

- D 1078 Test Method for Distillation Range of Volatile Organic Liquids³
- D 2108 Test Method for Color of Halogenated Organic Solvents and Their Admixtures (Platinum-Cobalt Scale)⁴
- D 2109 Test Methods for Nonvolatile Matter in Halogenated Organic Solvents and Their Admixtures⁴
- D 2111 Test Methods for Specific Gravity of Halogenated Organic Solvents and Their Admixtures⁴
- D 2251 Test Method for Metal Corrosion by Halogenated Organic Solvents and Their Admixtures⁴
- D 2942 Test Method for Total Acid Acceptance of Halogenated Organic Solvents (Nonreflux Method)⁴
- D 2989 Test Method for Acidity-Alkalinity of Halogenated Organic Solvents and Their Admixtures⁴
- D 3401 Test Methods for Water in Halogenated Organic Solvents and Their Admixtures⁴

¹ This specification is under the jurisdiction of ASTM Committee D26 on Halogenated Organic Solvents and Fire Extinguishing Agents and is the direct responsibility of Subcommittee D26.02 on Vapor Degreasing.

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² *Manual on Vapor Degreasing, MNL2*, Third Edition, ASTM.

³ *Annual Book of ASTM Standards*, Vol 06.04.

⁴ *Annual Book of ASTM Standards*, Vol 15.05.

D 3741 Test Method for Appearance of Admixtures Containing Halogenated Organic Solvents⁴

D 3844 Practice for Labeling Halogenated Hydrocarbon Solvent Containers⁴

D 4276 Practice for Confined Area Entry⁴

D 4755 Test Method for Free Halogens in Halogenated Organic Solvents and Their Admixtures⁴

D 6505 Test Method for Assay of *normal*-Propyl Bromide Content⁴

2.2 Other Documents:⁵

29 CFR 1919.1200 Department of Labor, OSHA Regulations on Hazard Communications⁵

49 CFR 100 to 199 Department of Transportation Hazardous Materials Regulations

3. Properties

3.1 Vapor degreasing grade and general solvent grade *normal*-propyl bromide shall conform to the requirements prescribed in Table 1. The metal corrosion tests described in Test Method D 2251 (test at reflux temperature only) shall be performed with aluminum (Al 1100). It is recommended, but not a requirement of this specification, that this test also be carried out by the end user on all metal alloys expected to contact the solvent during the intended storage and use.

4. Packaging

4.1 Industrial or commercial quantities shall be packaged and labeled in accordance with DOT regulations as found in 49 CFR 100 to 199 and state and local regulations, and with OSHA Regulations found in 29 CFR 1910.1200.

5. Keywords

5.1 *normal*-propyl bromide; 1-bromopropane; vapor-degreasing solvent

⁵ The *Code of Federal Regulations* may be obtained from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

