



Designation: D8061 – 21

Standard Practice for Handling, Transportation, and Storage of 2-Bromo-3,3,3-Trifluoro-1-Propene (CF₃CB_r=CH₂)¹

This standard is issued under the fixed designation D8061; 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 This practice covers guidance and direction to suppliers, reclaimers, purchasers, and users in the handling, transportation, and storage of 2-Bromo-3,3,3-Trifluoro-1-Propene (“2-BTP”).

1.2 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered 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, 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 standardization 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

D8060 Specification for 2-Bromo-3,3,3-Trifluoro-1-Propene (CF₃CB_r=CH₂)

2.2 U.S. Government Standards:³

49 CFR Part 172 Hazardous Materials Table, Special Provisions, Hazardous Materials Communications, Emergency Response Information, Training Requirements, and Security Plans

¹ This practice is under the jurisdiction of ASTM Committee D26 on Halogenated Organic Solvents and Fire Extinguishing Agents and is the direct responsibility of Subcommittee D26.09 on Fire Extinguishing Agents.

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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 Code of Federal Regulations (CFR) documents are available from U.S. Government Publishing Office (GPO), 732 N. Capitol St., NW, Washington, DC 20401, <https://www.gpo.gov>.

49 CFR Part 172.101 Purpose and Use of Hazardous Materials Table

49 CFR Part 173 Shippers—General Requirements for Shipments and Packagings

49 CFR Part 178 Specifications for Packagings

49 CFR Part 180 Continuing Qualification and Maintenance of Packagings

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

3.1.1 2-BTP, *n*—2-Bromo-3,3,3-Trifluoro-1-Propene (CF₃CB_r=CH₂); a compound used to inert, extinguish, or suppress a fire or explosion hazard.

3.1.2 containers, *n*—storage vessels for 2-BTP.

3.1.3 cylinders, *n*—containers of 2-BTP.

3.1.4 insulated, *adj*—placed in an isolated situation to protect and prevent the transfer of damage.

4. Significance and Use

4.1 This practice provides requirements for the handling, transportation, and storage of 2-BTP encountered in distribution through both commercial and military channels. It is intended to ensure that 2-BTP is handled, transported, and stored in such a way that its physical property virtues are not degraded. Transport may be by various means, such as, but not limited to, highway, rail, water, and air.

5. Practice

5.1 To ensure safe handling, loading, unloading, storing, and transporting of material, personnel shall be trained in the 49 CFR regulations as listed in 2.2 and trained to follow guidance contained within the manufacturer’s Safety Data Sheet for this substance.

5.2 Handling:

5.2.1 Handling shall be in accordance with the current manufacturer’s Safety Data Sheet for this substance.

5.2.1.1 Personnel who handle or store, or both, containers of 2-BTP shall be trained properly to recognize and identify the characteristics of the product and the proper methods of safely handling full, partially full, and empty containers.