

Bromotrifluoroethylene

CAS No. 598-73-2

Bromotrifluoroethylene is a gas at ambient conditions. It is sold as a liquid under pressure. It is useful as a monomer and can be used to prepare various polymers and co-polymers.

Specifications

Assay by Gas Chromatography 99.5% minimum
0.1% inhibitor is added to containers.

Physical Properties

Chemical Formula: CF_2CFBr
Mol. Wt.: 160.9
Boiling Pt.: $-2\text{ }^\circ\text{C}$
Melting Pt.: Not determined
Vapor Pressure: 1300 mm Hg (77 F)
Appearance and Odor: colorless liquefied gas with sweet odor.
Solubility in water: Negligible.

Packaging

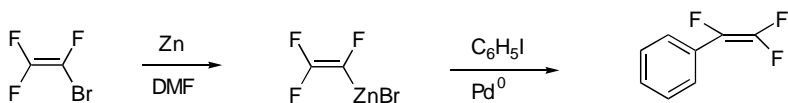
20 lb, 50 lb. and ton cylinders

Typical chemistry and uses

Bromotrifluoroethylene is used to prepare various polymers and co-polymers. It is also used in the preparation of fluorinated styrenes. Some examples of its utility in organic synthesis are shown below.

Synthesis of α,β,β -trifluorostyrenes

Burton, D. et al. J. Org. Chem. 1988, 53, 2714



1,4-Diaryl-2,3-difluoro-2-butene insecticidal and acaricidal agents

US 6,506,800, 2003, BASF Aktiengesellschaft

