

Product Data Sheet

Product Name: 1-Bromo-1-propene (cis- and trans- mixture)

Cat. No.: GD03484

Chemical Properties

Cas. No. 590-14-7

Formula C_3H_5Br M.Wt 120.98

Solubility Storage 2-8°C argon filling

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

1-Bromo-1-propene (cis- and trans- mixture) is a halogenated organic compound with the molecular formula C_3H_5Br . It exists as a mixture of two geometric isomers—cis and trans—due to the presence of a carbon–carbon double bond [1]. 1-Bromo-1-propene (cis- and trans- mixture) is a bromoalkene, it contains both a vinyl group and a bromine substituent, which makes it a highly reactive intermediate in organic synthesis [2-3].

References:

Caution: Product has not been fully validated for medical applications. For research use only.

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- [1]. Harwell KE, Hatch LF. cis-trans Isomerization of 1-Bromo-1-propene and Related Compounds. Journal of the American Chemical Society. 1955 Mar; 77(6): 1682-1684.
- [2]. Taylor AM, Altman RA, Buchwald SL. Palladium-catalyzed enantioselective α -arylation and α -vinylation of oxindoles facilitated by an axially chiral P-stereogenic ligand. Journal of the American Chemical Society. 2009 Jul 29;131(29):9900-9901.
- [3]. Barluenga J, Rodríguez F, Álvarez-Rodrigo L, et al. Zirconium-Mediated Cross-Coupling of Terminal Alkynes and Vinyl Bromides: Selective Synthesis of Cyclobutene and 1, 3-Diene Derivatives. Chemistry—A European Journal. 2004 Jan 5;10(1):101-108.

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