

1-Buten-3-yne 50% mixture in Xylene
(Syn: Vinyl Acetylene)

CAS # 689-97-4

Product # 412.32

DESCRIPTION: 1-Buten-3-yne is a colorless gas. Due to its reactive nature it is shipped as a 50% solution in xylene.

USES: Specialty gas mixtures, Organic synthesis and Instrument calibration

TYPICAL PHYSICAL & CHEMICAL PROPERTIES:

Purity Specification: 98% Min.
 Specific Gravity: 0.7095
 Vapor Pressure: 204.6mm @ -49.5° C / 401mm @ -10° C /
 952 mm @ 112° C¹
 Boiling Point: 5.1° C
 Odor: Characteristic Acetylenic odor.

TYPICAL IMPURITIES:

Xylene, mixed <50%

TOXICITY: The toxicity of 1-Buten-3-yne has not been thoroughly investigated. It probably has some anesthetic activity and can act as a simple asphyxiant.

SHIPPING CLASS: UN3161 Liquefied Gas, Flammable, (N.O.S)

| Cylinder Size | Volume (Kg) | CGA with diptube (liquid withdraw) | CGA without driptube (vapor withdraw) |
|----------------|-------------|---------------------------------------|---|
| Lecture Bottle | .250 | n/a | CGA 180 |
| 5 lb | up to 2.2 | CGA 510 | CGA 555 |
| 11 lb | up to 5.0 | CGA 510 | CGA 555 |
| 20 lb | up to 9.0 | CGA 510 | CGA 555 |
| 60 lb | up to 27.0 | CGA 510 | CGA 555 |
| 100 lb | up to 45.0 | CGA 510 | CGA 555 |

The information contained herein is typical of this grade of product. We accept no responsibility for the results obtained by the application of this information or for the safety and suitability of this product in any particular use. Users are advised to make their own tests to determine the suitability of this product for their own purposes. No warrantee is expressed or implied and buyers assume all responsibility and liability for loss or damage arising from the use of this information or handling and use of this product.

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Revision #3

¹ Physical constants of the Principle Hydrocarbons, 1942