

Technical Data Sheet

2-Butyne (Syn: Dimethylacetylene)

CAS# 503-17-3

Product# 464.52

DESCRIPTION:

2-Butyne is a clear colorless liquid with a characteristic acetylenic odor.

USES:

Organic synthesis.

TYPICAL PHYSICAL & CHEMICAL PROPERTIES:

| | |
|-------------------------|---------------------------------|
| Purity | 98% Min. |
| Vapor Pressure @ 20°C | 600 mm |
| Heat of Vaporization | 119.2 Cal/g |
| Boiling Point | 26.95°C |
| Flash Point | -56°F |
| Specific Gravity | 0.6910 ¹ |
| Melting Point | -32.2°C ¹ |
| Refractive Index @ 20°C | 1.3920 ¹ |
| Odor | Characteristic acetylenic odor. |

TYPICAL IMPURITIES

| | |
|---------------|--------|
| 1-Butene | <0.25% |
| 2-Butene, c&t | <0.25% |
| 1,2-Butadiene | <0.25% |
| 1-Butyne | <1% |

TOXICITY:

The toxicity of 2-Butyne has not been thoroughly investigated. It probably has some anesthetic activity and can act as a simple asphyxiant.

SHIPPING CLASS:

UN1144 Flammable Gas

MATERIAL SAFETY DATA SHEET (MSDS):

An MSDS is available upon request

¹ CRC Handbook of Chemistry & Physics

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