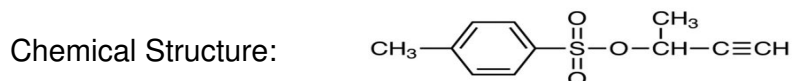


Certificate of Analysis

Product Name: 1-Butyn-3-yl p-Toluenesulfonate
Cat. No.: GD03673
Batch No.: 1
Chemical Name:

PHYSICAL AND CHEMICAL PROPERTIES

Cas. No.: 53487-52-8
Molecular Formula: C₁₁H₁₂O₃S
Molecular Weight: 224.276
Storage:



ANALYTICAL DATA

Appearance: A solid
HNMR: Consistent with structure
HPLC: Consistent with structure
Purity: >98.00%
Conclusion: The product has been tested and complies with the given specifications.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA