

## Certificate of Analysis

Product Name: 3, 3'-Methylenebis(1-tert-butyl-3-imidazolium Bromide)  
Cat. No.: GF32711  
Batch No.: 1  
Chemical Name:

### PHYSICAL AND CHEMICAL PROPERTIES

Cas. No.: 247902-48-3  
Molecular Formula: C<sub>15</sub>H<sub>26</sub>Br<sub>2</sub>N<sub>4</sub>  
Molecular Weight: 422.21  
Storage: Store at RT

Chemical Structure:



### 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