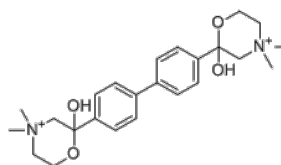


**Product Name** : Hemicholinium-3  
**Cat. No.** : PC-60867  
**CAS No.** : 312-45-8  
**Batch No.** : PC-6086701  
**Chemical Name** : 2,2'-([1,1'-Biphenyl]-4,4'-diyl)bis(2-hydroxy-4,4-dimethylmorpholin-4-ium) bromide

## PHYSICAL AND CHEMICAL PROPERTIES

**Molecular Weight** : 574.35  
**Molecular Formula** :  $C_{24}H_{34}Br_2N_2O_4$   
**Storage** : Powder -20°C 12 Months  
4°C 6 Months  
In solvent -80°C 6 Months  
-20°C 1 Month

**Chemical Structure** :



## ANALYTICAL DATA

**Appearance** : Solid powder  
**<sup>1</sup>H NMR Spectrum** : Consistent with  
**HPLC** : Consistent with  
**NP** : Consistent with  
**Purity (HPLC and/or LCMS)** : >98%  
**Conclusion** : The product has been tested and complies with the given specifications.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

E-mail: tech@probechem.com