

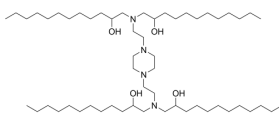
## 1,1',1'',1'''-[1,4-Piperazinediylbis(2,1-ethanediylnitriilo)]tetrakis[2-dodecanol]

Cat. No.: HY-112773  
CAS No.: 1265904-26-4  
Batch No.: 180477  
Chemical Name: 2-Dodecanol, 1,1',1'',1'''-[1,4-piperazinediylbis(2,1-ethanediylnitriilo)]tetrakis-

### PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula:  $C_{56}H_{116}N_4O_4$   
Molecular Weight: 909.54  
Storage: Powder      -20°C    3 years  
                                  4°C      2 years  
                                  In solvent   -80°C    6 months  
  -20°C    1 month

Chemical Structure:



### ANALYTICAL DATA

Appearance: Light yellow to orange (Solid)  
 $^1H$  NMR Spectrum: Consistent with structure  
MS: Consistent with structure  
Purity (NMR):  $\geq 98.0\%$   
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.**

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