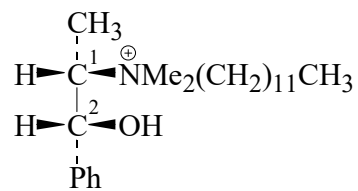




>>Entry Name: Dodecyl(β -hydroxy- α -methylphenethyl)dimethylammonium(1+), 8Cl

Synonym(s): *N*-Dodecyl- β -hydroxy-*N,N*, α -trimethylbenzeneethanaminium, 9Cl. *N*-Dodecyl-*N*-methylephedrinium



Related CAS Registry Numbers(s): 31351-20-9

Molecular Formula: C₂₃H₄₂NO⁽⁺⁾

Molecular Weight: 348.591

Accurate Mass: 348.326639

Percentage Composition: C 79.25%; H 12.14%; N 4.02%; O 4.59%

>>Variant: (1*S*,2*R*)-form

CAS Registry Number: 142413-91-0

Molecular Formula: C₂₃H₄₂NO

Molecular Weight: 348.591

Accurate Mass: 348.326639

Percentage Composition: C 79.25%; H 12.14%; N 4.02%; O 4.59%

>>Derivative: Bromide

CAS Registry Number: 57155-63-2

Molecular Formula: C₂₃H₄₂BrNO

Molecular Weight: 428.495

Accurate Mass: 427.264975

Percentage Composition: C 64.47%; H 9.88%; Br 18.65%; N 3.27%; O 3.73%

Use/Importance: Chiral phase-transfer catalyst for NaBH₄ redn. of carbonyl compds.

Physical Description: Cryst.

References:

Bunton, C.A. *et al.*, *Tet. Lett.*, 1971, 121-124, (*synth, use*)

Colonna, S. *et al.*, *Synthesis*, 1975, 531-532; 1976, 266-267, (*use*)