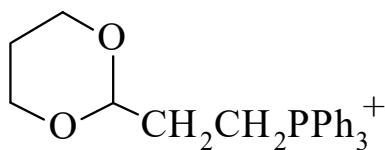




>>Entry Name: [2-(1,3-Dioxan-2-yl)ethyl]triphenylphosphonium(1+), 9Cl



Molecular Formula: C₂₄H₂₆O₂P⁽⁺⁾

Molecular Weight: 377.442

Accurate Mass: 377.167042

Percentage Composition: C 76.37%; H 6.94%; O 8.48%; P 8.21%

>>Derivative: Bromide

CAS Registry Number: 69891-92-5

Type of Compound Code(s): AC0600

Molecular Formula: C₂₄H₂₆BrO₂P

Molecular Weight: 457.346

Accurate Mass: 456.105378

Percentage Composition: C 63.03%; H 5.73%; Br 17.47%; O 7.00%; P 6.77%

Use/Importance: With RLi → ylide

Physical Description: Solid

Melting Point: Mp 205-208°

Aldrich: 21959-2

Fluka: 42540

>>Derivative: Ylide

Synonym(s): [2-(1,3-Dioxan-2-yl)ethylidene]triphenylphosphorane

CAS Registry Number: 69891-57-2

Type of Compound Code(s): AC0800

Molecular Formula: C₂₄H₂₅O₂P

Molecular Weight: 376.434

Accurate Mass: 376.159217

Percentage Composition: C 76.58%; H 6.69%; O 8.50%; P 8.23%

Use/Importance: Wittig rgt., for chain extension of aldehydes and ketones. Used in leukotriene synth.

Physical Description: Orange

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 1674B, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 547C, (*ir*)

Stowell, J.C. *et al.*, *Synthesis*, 1979, 132, (*synth, use*)

Cohen, N. *et al.*, *J.A.C.S.*, 1983, **105**, 3661, (*use*)