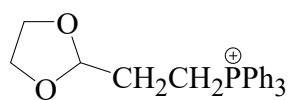




>>Entry Name: 2-(1,3-Dioxolan-2-ylethyl)triphenylphosphonium(1+)



Molecular Formula: C₂₃H₂₄O₂P⁽⁺⁾

Molecular Weight: 363.415

Accurate Mass: 363.151392

Percentage Composition: C 76.02%; H 6.66%; O 8.81%; P 8.52%

Use/Importance: Salts used for Wittig three carbon homologation of aldehydes

>>Derivative: Bromide

CAS Registry Number: 86608-70-0

Molecular Formula: C₂₃H₂₄BrO₂P

Molecular Weight: 443.319

Accurate Mass: 442.089728

Percentage Composition: C 62.31%; H 5.46%; Br 18.02%; O 7.22%; P 6.99%

Melting Point: Mp 153-155°

Aldrich: 33811-7

>>Derivative: Iodide

CAS Registry Number: 83739-26-8

Molecular Formula: C₂₃H₂₄IO₂P

Molecular Weight: 490.32

Accurate Mass: 490.055865

Percentage Composition: C 56.34%; H 4.93%; I 25.88%; O 6.53%; P 6.32%

Melting Point: Mp 104-107°

References:

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U.S. Pat., 1982, 4 371 720; *CA*, **97**, 144446, (*bromide, synth, use*)

Gaede, B.J., *Org. Prep. Proced. Int.*, 1987, **19**, 461-465, (*bromide, use*)

Sakata, Y. *et al.*, *Tetrahedron*, 1989, **45**, 4717-4727, (*bromide, synth, use*)