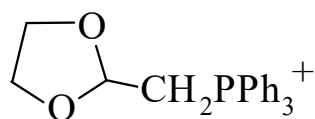




>>Entry Name: [(1,3-Dioxolan-2-yl)methyl]triphenylphosphonium(1+), 9CI



Molecular Formula: C₂₂H₂₂O₂P⁽⁺⁾

Molecular Weight: 349.388

Accurate Mass: 349.135742

Percentage Composition: C 75.63%; H 6.35%; O 9.16%; P 8.87%

>>Derivative: Bromide

CAS Registry Number: 52509-14-5

Type of Compound Code(s): AC0600

Molecular Formula: C₂₂H₂₂BrO₂P

Molecular Weight: 429.292

Accurate Mass: 428.074078

Percentage Composition: C 61.55%; H 5.17%; Br 18.61%; O 7.45%; P 7.22%

Physical Description: Prisms (CH₂Cl₂/Et₂O or Me₂CO/EtOAc)

Melting Point: Mp 172-174° (191.5-193° after drying). Mp 199-201°

Aldrich: 22385-9

>>Derivative: Iodide

CAS Registry Number: 69216-75-7

Molecular Formula: C₂₂H₂₂IO₂P

Molecular Weight: 476.293

Accurate Mass: 476.040215

Percentage Composition: C 55.48%; H 4.66%; I 26.64%; O 6.72%; P 6.50%

Physical Description: Cryst. (CHCl₃/EtOAc)

Melting Point: Mp 212°

>>Derivative: Ylide

Synonym(s): [(1,3-Dioxolan-2-yl)methylene]triphenylphosphorane

CAS Registry Number: 78950-65-9

Type of Compound Code(s): AC0800

Molecular Formula: C₂₂H₂₁O₂P

Molecular Weight: 348.38

Accurate Mass: 348.127917

Percentage Composition: C 75.85%; H 6.08%; O 9.19%; P 8.89%

Use/Importance: Reagent for vinylogation of aldehydes, RCHO → RCH=CHCHO

References:

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