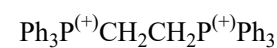




>>Entry Name: 1,2-Ethanediybis[triphenylphosphonium](2+), 9Cl

Synonym(s): 1,2-Ethylenebis[triphenylphosphonium](2+). 1,2-Bis(triphenylphosphonio)ethane

CAS Registry Number: 13275-02-0



Molecular Formula: $\text{C}_{38}\text{H}_{34}\text{P}_2^{2(+)}$

Molecular Weight: 552.634

Accurate Mass: 552.213574

Percentage Composition: C 82.59%; H 6.20%; P 11.21%

>>Derivative: Dibromide

CAS Registry Number: 1519-45-5

Molecular Formula: $\text{C}_{38}\text{H}_{34}\text{Br}_2\text{P}_2$

Molecular Weight: 712.442

Accurate Mass: 710.090246

Percentage Composition: C 64.06%; H 4.81%; Br 22.43%; P 8.70%

Use/Importance: Used as 0.5% aq. soln. for extraction-photometric detn. of Co, Nb, Mn (as $\text{MnO}_4^{(-)}$)

Physical Description: Cryst. ($\text{CHCl}_3/\text{EtOAc}$)

Melting Point: Mp 297-300°. Mp 313-314°

Solubility: Sol. H_2O

Hazard & Toxicity: Exhibits anticholinesterase activity towards vertebrates and schistosomes. Can explode at 80-90°

Rare Chemicals Library: S53682-2

>>Derivative: Bis(tribromide)

CAS Registry Number: 104785-67-3

Molecular Formula: $\text{C}_{38}\text{H}_{34}\text{Br}_6\text{P}_2$

Molecular Weight: 1032.058

Accurate Mass: 1025.84359

Percentage Composition: C 44.22%; H 3.32%; Br 46.45%; P 6.00%

Use/Importance: Brominating agent for ketones

Physical Description: Solid

Melting Point: Mp 186-188°

>>Derivative: Bis(hexafluorophosphate)

CAS Registry Number: 91533-51-6

Molecular Formula: $\text{C}_{38}\text{H}_{34}\text{F}_{12}\text{P}_4$

Molecular Weight: 842.562

Accurate Mass: 842.141934

Percentage Composition: C 54.17%; H 4.07%; F 27.06%; P 14.70%

Physical Description: Solid

Melting Point: Mp 208-215°

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