



>>Entry Name: Tris(3-fluorophenyl)phosphine, 9CI

CAS Registry Number: 23039-94-3

Molecular Formula: C₁₈H₁₂F₃P

Molecular Weight: 316.262

Accurate Mass: 316.062871

Percentage Composition: C 68.36%; H 3.82%; F 18.02%; P 9.79%

Use/Importance: Ligand for metals of Groups VIIB and VIII

Physical Description: Cryst. (MeOH)

Melting Point: Mp 64°

Boiling Point: Bp_{0.1} 150°

>>Derivative: Methiodide

Synonym(s): Methyltris(3-fluorophenyl)phosphonium iodide

Molecular Formula: C₁₉H₁₅F₃IP

Molecular Weight: 458.201

Accurate Mass: 457.990819

Percentage Composition: C 49.81%; H 3.30%; F 12.44%; I 27.70%; P 6.76%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 216°

>>Derivative: Oxide

CAS Registry Number: 54300-34-4

Molecular Formula: C₁₈H₁₂F₃OP

Molecular Weight: 332.261

Accurate Mass: 332.057786

Percentage Composition: C 65.07%; H 3.64%; F 17.15%; O 4.82%; P 9.32%

Physical Description: Cryst. (C₆H₆/petrol), needles (hexane)

Melting Point: Mp 104°

>>Derivative: Sulfide

CAS Registry Number: 54300-42-4

Molecular Formula: C₁₈H₁₂F₃PS

Molecular Weight: 348.328

Accurate Mass: 348.034941

Percentage Composition: C 62.07%; H 3.47%; F 16.36%; P 8.89%; S 9.21%

Physical Description: Solid

Melting Point: Mp 68°

>>Derivative: Selenide

CAS Registry Number: 54300-50-4

Molecular Formula: C₁₈H₁₂F₃PSe

Molecular Weight: 395.222

Accurate Mass: 395.979391

Percentage Composition: C 54.70%; H 3.06%; F 14.42%; P 7.84%; Se 19.98%

Physical Description: Solid

Melting Point: Mp 109°

References: