



>>Entry Name: Bis(4-methylphenyl)phosphinous acid

Synonym(s): Di-*p*-tolylphosphinous acid

CAS Registry Number: 14655-66-4

Molecular Formula: C₁₄H₁₅OP

Molecular Weight: 230.246

Accurate Mass: 230.086052

Percentage Composition: C 73.03%; H 6.57%; O 6.95%; P 13.45%

General Statement: The free acid exists in the tautomeric phosphoryl form. See Bis(4-methylphenyl)phosphine [DNS37-T](#)

>>Derivative: Me ester

Synonym(s): Methyl bis(4-methylphenyl)phosphinite

CAS Registry Number: 13917-52-7

Molecular Formula: C₁₅H₁₇OP

Molecular Weight: 244.272

Accurate Mass: 244.101702

Percentage Composition: C 73.76%; H 7.01%; O 6.55%; P 12.68%

Physical Description: Liq.

Boiling Point: Bp₃ 155-156.5°

Density: d₄²⁰ 1.06

Refractive Index: n_D²⁰ 1.5912 n_D²⁰ 1.5792

>>Derivative: Et ester

Synonym(s): Ethyl bis(4-methylphenyl)phosphinite

CAS Registry Number: 13648-75-4

Molecular Formula: C₁₆H₁₉OP

Molecular Weight: 258.299

Accurate Mass: 258.117352

Percentage Composition: C 74.40%; H 7.41%; O 6.19%; P 11.99%

Physical Description: Liq.

Boiling Point: Bp₅ 168.5-169.5°

Density: d₄²⁰ 1.04

Refractive Index: n_D²⁰ 1.5799

>>Derivative: Chloride

Synonym(s): Chlorobis(4-methylphenyl)phosphine

CAS Registry Number: 1019-71-2

Molecular Formula: C₁₄H₁₄ClP

Molecular Weight: 248.691

Accurate Mass: 248.052164

Percentage Composition: C 67.62%; H 5.67%; Cl 14.26%; P 12.45%

Physical Description: Viscous liq.

Boiling Point: Bp₇ 175.5-177°. Bp_{0.03} 125-127°

Density: d₄²⁰ 1.14

Refractive Index: n_D²⁰ 1.6160

>>Derivative: Diethylamide

Synonym(s): *N,N*-Diethyl-*P,P*-bis(4-methylphenyl)phosphinous amide

Molecular Formula: C₁₈H₂₄NP

Molecular Weight: 285.368

Accurate Mass: 285.164636

Percentage Composition: C 75.76%; H 8.48%; N 4.91%; P 10.85%

Physical Description: Cryst.

Melting Point: Mp 59-61°

Boiling Point: Bp₂ 172-173°

References: