



>>Entry Name: Dichlorobis(triphenylphosphine)platinum(II), 9Cl, 8Cl

Synonym(s): Bis(triphenylphosphine)platinum dichloride. Bis(triphenylphosphine)dichloroplatinum(II). Platinum(II) chloride bis-triphenylphosphine

CAS Registry Number: 10199-34-5

As Dibromobis(triphenylphosphine)platinum(II), JCV30-Q with
X = Cl

Molecular Formula: C₃₆H₃₀Cl₂P₂Pt

Molecular Weight: 790.566

Accurate Mass: 789.084744

Percentage Composition: C 54.69%; H 3.82%; Cl 8.97%; P 7.84%; Pt 24.68%

Use/Importance: Commercially available. Starting material for many Pt compds. Catalyst, often with added SnCl₂, for hydrogenation and hydroformylation reactions. Catalyses hydrosilylation and carboxylation of alkenes, isom. and polym. of alkanes and alkynes, also chlorination of alkanes by CCl₄

Biological Use/Importance: ATPase inhibitor

>>Variant: *cis*-form

CAS Registry Number: 15604-36-1

Molecular Formula: C₃₆H₃₀Cl₂P₂Pt

Molecular Weight: 790.566

Accurate Mass: 789.084744

Percentage Composition: C 54.69%; H 3.82%; Cl 8.97%; P 7.84%; Pt 24.68%

Physical Description: V. pale yellow hygroscopic cryst. (CHCl₃)

Melting Point: Mp 310-312°

Hazard & Toxicity: Irritant

Aldrich: 24494-5

Fluka: 15259

>>Variant: *trans*-form

CAS Registry Number: 14056-88-3

Molecular Formula: C₃₆H₃₀Cl₂P₂Pt

Molecular Weight: 790.566

Accurate Mass: 789.084744

Percentage Composition: C 54.69%; H 3.82%; Cl 8.97%; P 7.84%; Pt 24.68%

Physical Description: Yellow hygroscopic cryst. (C₆H₆)

Melting Point: Mp 307-310°

Hazard & Toxicity: Irritant

Aldrich: 28840-3

References:

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