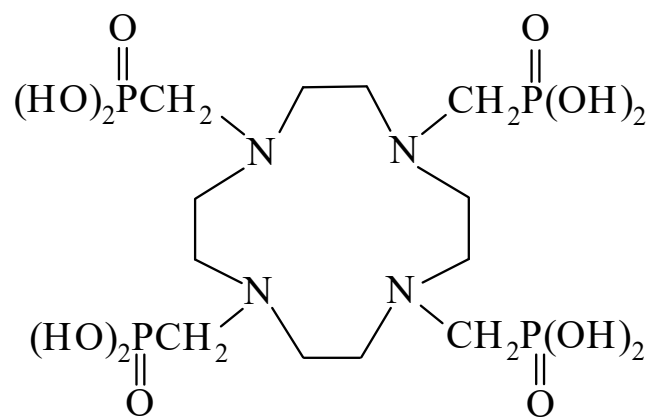




>>Entry Name: *N,N',N'',N'''*-Tetrakis(dihydroxyphosphinylmethyl)-1,4,7,10-tetraazacyclododecane



CAS Registry Number: 91987-74-5

Molecular Formula: C₁₂H₃₂N₄O₁₂P₄

Molecular Weight: 548.299

Accurate Mass: 548.096724

Percentage Composition: C 26.29%; H 5.88%; N 10.22%; O 35.02%; P 22.60%

Use/Importance: Forms complexes with Group II metals

Physical Description: Cryst. (Me₂CO aq.)

Melting Point: Mp 250-255 dec.°

pKa Value: pK_{a1} 1; pK_{a2} 2; pK_{a3} 4.88; pK_{a4} 5.73; pK_{a5} 7.28; pK_{a6} 8.46; pK_{a7} 11.52; pK_{a8} 12.11

>>Derivative: Methiodide

Physical Description: Cryst. (Me₂CO)

Melting Point: Mp 320°

>>Derivative: Biscyclohexylammonium salt

Physical Description: Solid

Melting Point: Mp 300 dec.°

References:

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