



>>Entry Name: Tetraoctylphosphonium(1+), 9Cl

CAS Registry Number: 45308-00-7

Related CAS Registry Numbers(s): 29578-61-8 37165-84-7 56786-95-9 59261-34-6 71977-65-6
 $[\text{H}_3\text{C}(\text{CH}_2)_7]_4\text{P}^{(+)}$

Molecular Formula: $\text{C}_{32}\text{H}_{68}\text{P}^{(+)}$

Molecular Weight: 483.863

Accurate Mass: 483.505862

Percentage Composition: C 79.43%; H 14.16%; P 6.40%

>>Derivative: Bromide

CAS Registry Number: 23906-97-0

Molecular Formula: $\text{C}_{32}\text{H}_{68}\text{BrP}$

Molecular Weight: 563.767

Accurate Mass: 562.444198

Percentage Composition: C 68.18%; H 12.16%; Br 14.17%; P 5.49%

Physical Description: Cryst. (Et_2O)

Melting Point: Mp 45-47°

Aldrich: 44213-5

Fluka: 87987

Other: CYTEC

>>Derivative: Iodide

CAS Registry Number: 23906-96-9

Molecular Formula: $\text{C}_{32}\text{H}_{68}\text{IP}$

Molecular Weight: 610.767

Accurate Mass: 610.410335

Percentage Composition: C 62.93%; H 11.22%; I 20.78%; P 5.07%

Physical Description: Cryst. (Et_2O)

Melting Point: Mp 86-87°

>>Derivative: Hydroxide

CAS Registry Number: 40333-00-4

Molecular Formula: $\text{C}_{32}\text{H}_{69}\text{OP}$

Molecular Weight: 500.87

Accurate Mass: 500.508602

Percentage Composition: C 76.74%; H 13.88%; O 3.19%; P 6.18%

Physical Description: Thick oil

References:

Feshchenko, N.G. *et al.*, *Zh. Obshch. Khim.*, 1969, **39**, 1886; *CA*, **71**, 113042z, (*synth*)

Petrov, K.A. *et al.*, *Zh. Obshch. Khim.*, 1972, **42**, 2469; *J. Gen. Chem. USSR (Engl. Transl.)*, 1972, **42**, 2462