



>>Entry Name: Triphenylphosphine oxide, 9Cl, 8Cl

CAS Registry Number: 791-28-6

Related CAS Registry Numbers(s): 127486-94-6

$\text{Ph}_3\text{P}=\text{O}$

Molecular Formula: $\text{C}_{18}\text{H}_{15}\text{OP}$

Molecular Weight: 278.29

Accurate Mass: 278.086052

Percentage Composition: C 77.69%; H 5.43%; O 5.75%; P 11.13%

Use/Importance: Complexes with metals of Groups IIIA, IVA, IIIB, IVB, VB, VIB, VIIB, and VIII, and lanthanides

Physical Description: Cryst. (EtOH or petrol)

Melting Point: Mp 152-153°. Mp 155-156°

pKa Value: pK_a 2.9 (MeNO₂, MeNO₂)

Other Data: Triboluminescent. Forms complexes with SO₃, Br₂, I₂, HBr, HCl, Cl₃CCOOH, PhCOOH, and many metal halides. Forms a hemihydrate

Aldrich: T8460-3

Fluka: 93100

References:

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