



>>Entry Name: Phenyliodine diacetate

Synonym(s): Bis(acetato-*O*)phenyliodine, gCl. Iodosobenzene diacetate. (Dihydroxyiodo)benzene diacetate. (Diacetoxyiodo)benzene. Phenyliodoso acetate

CAS Registry Number: 3240-34-4

PhI(OAc)₂

Molecular Formula: C₁₀H₁₁IO₄

Molecular Weight: 322.099

Accurate Mass: 321.970208

Percentage Composition: C 37.29%; H 3.44%; I 39.40%; O 19.87%

Use/Importance: Synthetic reagent with a variety of uses, mild oxidising agent. Reagent for β-fragmentation of alkoxyradicals

Melting Point: Mp 160.5° (158°)

Aldrich: 17872-1

Fluka: 31490

References:

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Friedrich, K. *et al.*, *Chem. Ber.*, 1978, **111**, 2099, (*cmr*)

Alcock, N.W. *et al.*, *J.C.S. Dalton*, 1979, 854, (*cryst struct*)

Varvoglis, A., *Chem. Soc. Rev.*, 1981, **10**, 377, (*rev*)

de Armas, P. *et al.*, *Tet. Lett.*, 1985, **26**, 2493, (*use*)

Concepción, J.I. *et al.*, *J.O.C.*, 1986, **51**, 402, (*use*)

Freire, R. *et al.*, *Tet. Lett.*, 1986, **27**, 383, (*use*)

Kitamura, T. *et al.*, *Org. Prep. Proced. Int.*, 1997, **29**, 411-458, (*use*)

Kirschning, A., *J. Prakt. Chem.*, 1998, **340**, 184-186, (*use*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials, 8th edn.*, Van Nostrand Reinhold, 1992, IFD000