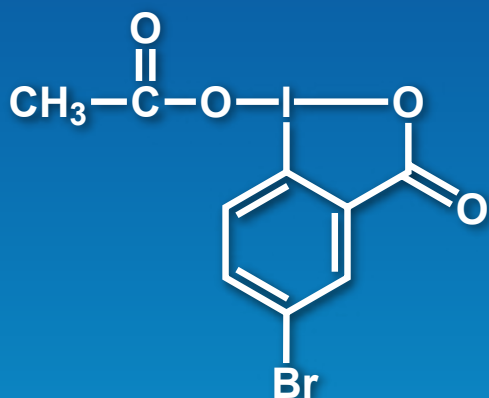


A Highly Active Trivalent Iodine Compound for Oxidation Reactions

ABBX



ABBX
1g
[A2678]

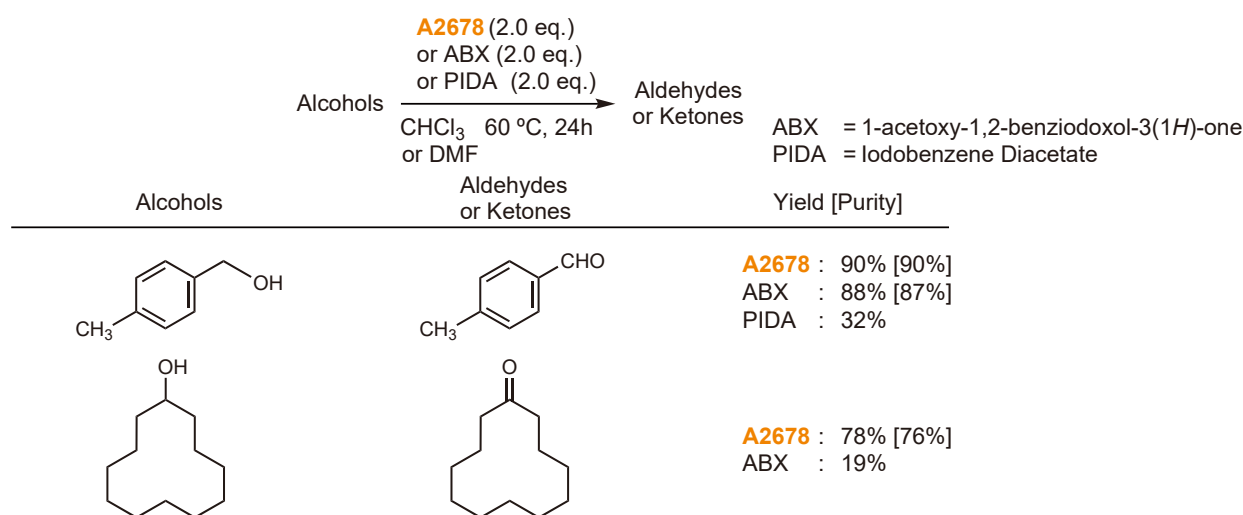
Advantages

- **Powerful Oxidizing Ability (superior to that of iodobenzene diacetate (PIDA))**
- **Easy Oxidation of Benzylic Alcohols and Aliphatic Secondary Alcohols**
- **Easy Removal Process for Co-product (5-bromo-2-iodobenzoic acid)**

ABBX [A2678] is a highly active trivalent iodine compound, developed by Togo *et al.*¹⁾ A2678 oxidizes benzylic alcohols and aliphatic secondary alcohols to the corresponding aldehydes and ketones in good yields from simple extraction of the reaction mixture. 5-Bromo-2-iodobenzoic acid, formed as a co-product of this reaction, can be recovered by acidification of the aqueous layer.

Reaction Examples

Oxidation of Alcohols to Aldehydes / Ketones using A2678



Reference M. Iinuma, K. Moriyama, H. Togo, *Eur. J. Org. Chem.* **2014**, 772. DOI: <http://dx.doi.org/10.1002/ejoc.201301466>

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