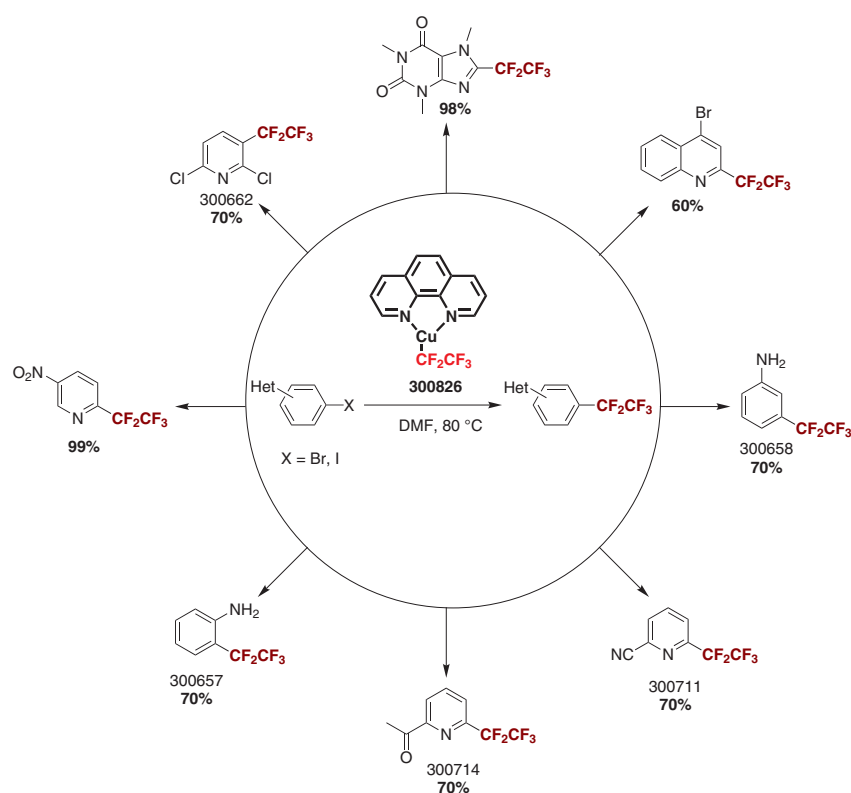


Pentafluoroethylator[®]

Pentafluoroethylation MADE EASY!

Following his report in 2011 of the Trifluoromethylator[®], Hartwig and his group developed a new reagent for the addition of pentafluoroethyl group to various aryl bromides. Utilizing the Trifluoromethylator[®] framework, the Pentafluoroethylator[®] reagent is a higher-order, copper-based complex delivering a pentafluoroethyl group to its targeted substrate. This breakthrough reagent allows scientists to generate various pentafluoroethyl heteroarenes using heteroaryl bromides; most of these compounds were not readily accessible by other chemistry previously.



- Operationally simple
- Broad substrate scope with unprecedented functional group compatibility
- Shelf-stable and available in competitive g-to-kg pricing

Product Number: **300826**

250 mg, 1 g, 5 g

For bulk inquiries,
please contact bulk@aspirasci.com.

The reaction conditions for Pentafluoroethylator[®] are similar to those for Trifluoromethylator[®], using 1.2 equivalent of the reagent in DMF at 80 °C; various aryl halides were perfluoro-ethylated in good to excellent yields.¹ The desired product is then extracted and further purified using column chromatography.

Reference

(1) Litvinas, N. et al. *Angew. Chem. Int. Ed.* 2012, 51, 536.