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Retraction: [TEATNM] and [TEATCM] as novel catalysts for the synthesis of pyridine-3,5-dicarbonitriles *via* anomeric-based oxidation

Saeed Baghery,* Mohammad Ali Zolfigol* and Farahnaz Maleki

Retraction of ' [TEATNM] and [TEATCM] as novel catalysts for the synthesis of pyridine-3,5-dicarbonitriles *via* anomeric-based oxidation' by Saeed Baghery *et al.*, *New J. Chem.*, 2017, **41**, 9276–9290, <https://doi.org/10.1039/C7NJ01934C>.

The Royal Society of Chemistry hereby wholly retracts this *New Journal of Chemistry* article as the synthesis of triethylammonium tricyanomethanide reported in the article, whereby tricyanomethane is used as a starting material, is not reproducible. The authors stated that they did not report the synthesis of tricyanomethane in the published paper as they purchased this compound from a commercial center and used it in the synthesis of ionic liquids, molten salts and various kinds of catalysts. The authors thought the reaction between tricyanomethane and organic bases is a simple acid–base reaction, therefore they did not cite the previously reported literature and its related history for the preparation of tricyanomethane. According to papers by Banert *et al.*,^{1,2} and based on their obtained analysis of the chemical sold to them as tricyanomethane, it became clear to the authors that this purchased compound was not tricyanomethane as there were differences in the ¹H NMR and ¹³C NMR chemical shift between the purchased compound and the reports of Banert *et al.*¹ According to these documents, the authors believe that the compound sold to them as tricyanomethane was fake. While the authors have now re-prepared triethylammonium tricyanomethanide, by synthesising potassium tricyanomethanide as a starting material for the synthesis,^{3–5} the synthesis reported in this article is not accurate. Therefore, this article is being retracted to avoid misleading readers and to protect the accuracy and integrity of the scientific record.

Saeed Baghery and Mohammad Ali Zolfigol oppose the retraction. Farahnaz Maleki was contacted but did not respond.

Signed: Andrew Shore, Executive Editor, *New Journal of Chemistry*

Date: 17th August 2022

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