

# Review of: "[Review Article] Green Strategies for the Synthesis of Quinolone Derivatives"

S. Mohamed Khaled

Potential competing interests: No potential competing interests to declare.

This review describes the **Green Strategies for the Synthesis of**

**Quinolone Derivatives.** This review needs major revision to be published for the reasons showed below.

1. Most schemes missed the type of substituent and yields of the product.
2. It is better to draw all structures in schemes in the same format.
3. In scheme 1, the name diethyl methoxy methylene malonate is not correct for the one drawn in the scheme. The name of the structure must be diethyl 2-(ethoxymethyl)malonate.
4. In scheme 1, the structure of the intermediate product before the final product is incorrect.
5. In scheme 2, the reaction is drawn by the incorrect method; R<sub>2</sub> in the 1,3-dicarbonyl compound must be OR<sub>2</sub>.
6. In scheme 2, replace is used to condense a modified aniline by the condensation of anilines with  $\beta$ -ketoesters.
7. In scheme 5, the reaction is drawn incorrectly. 2-aminoacetophenone is reacted with substituted aldehydes and not an alkene. Also, the final product in position 2 R is present and not methyl.
8. In scheme 6, in the text, heating occurs at 1200°C. Please correct.
9. Scheme 6 was drawn incorrectly. The compound that is drawn above method B is an intermediate and must be placed in brackets. Also, the arrow which contains Et<sub>2</sub>NH must be reversed.
10. In scheme, the reaction name of the second arrow must be corrected.
11. In scheme 11, in the text, CS<sub>2</sub>CO<sub>3</sub>, S must be a small letter.
12. Scheme 12 is the same as scheme 6 (it must be removed).
13. Scheme 13: The R substituent must be in the benzene ring, while R linked to C=O must be OEt. Redraw the scheme in the correct manner.
14. I think reference 78 is not appropriate for scheme 14.
15. In scheme 14, X must be CH<sub>2</sub>X.
16. Scheme 18 and scheme 19 are the same. It is better that the two schemes are included in one scheme.
17. S in scheme 23 must be SMe.
18. In page 3, several derivatives must be replaced with several quinolone derivatives. This review describes the **Green Strategies for the Synthesis of**

**Quinolone Derivatives.** This review needs major revision to be published for the reasons showed below.

1. Most schemes missed the type of substituent and yields of products.

2. It is better to draw all structures in schemes in the same format.
3. In scheme 1, the name diethyl methoxymethylene malonate is not correct for the one drawn in the scheme. The name of the structure must be diethyl 2-(ethoxymethyl)malonate.
4. In scheme 1, the structure of the intermediate product before the final product is incorrect.
5. In scheme 2, the reaction is drawn by the incorrect method. R2 in the 1,3-dicarbonyl compound must be OR2.
6. In scheme 2, the word "replace" is used to condense a modified aniline by the condensation of anilines with  $\beta$ -ketoesters.
7. In scheme 5, the reaction is drawn incorrectly. 2-aminoacetophenone is reacted with substituted aldehydes, not alkenes. Also, the final product in position 2, R, is present, not methyl.
8. In scheme 6, in the text, heating occurs at 1200°C. Please correct.
9. Scheme 6 was drawn incorrectly. The compound that is drawn above method B is an intermediate and must be placed in brackets. Also, the arrow which contains  $\text{Et}_2\text{NH}$  must be reversed.
10. In scheme ?, the reaction name of the second arrow must be corrected.
11. In scheme 11, in the text,  $\text{CS}_2\text{CO}_3$ , S must be a small letter.
12. Scheme 12 is the same as scheme 6 (it must be removed).
13. Scheme 13: The R substituent must be in the benzene ring, while R linked to C=O must be OEt. Redraw the scheme in the correct manner.
14. I think reference 78 is not appropriate for scheme 14.
15. In scheme 14, X must be  $\text{CH}_2\text{X}$ .
16. Scheme 18 and scheme 19 are the same. It is better that the two schemes are included in one scheme.
17. S in scheme 23 must be SMe.
18. In page 3, several derivatives must be replaced with several quinolone derivatives.