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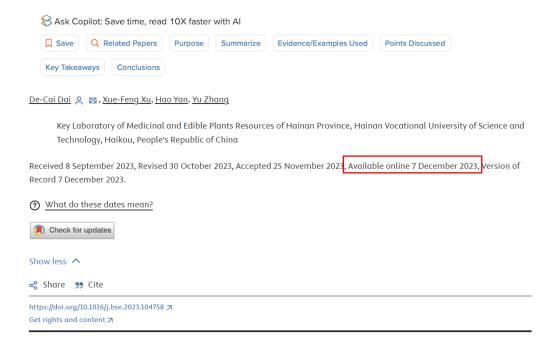
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# Xanthone derivatives from *Cratoxylum formosum* (Jack) Dyer subsp. *pruniflorum* (Kurz) Gogelin and their chemotaxonomic significance



# Highlights

- A new and seven known xanthones were isolated from the species Cratoxylum formosum.
- Compound 1 represents the first example of the 4-COOH group of xanthones from natural products.

3/28/24, 9:12 AM Xanthone derivatives from Cratoxylum formosum (Jack) Dyer subsp. pruniflorum (Kurz) Gogelin and their chemotaxonomic signific... preparative HPLC was performed on an Agilent 1260 LC series with a DAD detector using an Agilent Eclipse XDB-C18 column (9.4×250 mm,  $5 \mu m$ ). Silica gel (Qing Dao Hai Yang Chemical Group Co.; 200–300 mesh), octadecylsilyl silica gel (YMC;  $12nm-50 \mu m$ ) were used for column...

# Chemotaxonomic significance

In the present study, eight biogenetically related xanthone derivatives (1–8) were isolated from the stems of *C. formosum*. These compounds are found for the first time in the investigated plant. The obtained results differed significantly from those published previously (Juanda et al., 2019; Son, 2020). The eight isolates (1–8) were newly identified in the genus *Cratoxylum*. Compounds 1, 2, and 7 were also newly identified in the family Clusiaceae.

Cratoxanthone (1) as a new xanthone isolated and ...

## CRediT authorship contribution statement

**De-Cai Dai**: Writing - original draft, Separation of compounds and Funding acquisition. **Xue-Feng Xu and Yu Zhang**: Separation of compounds. **Hao Yan**: Writing - review/editing, Structural identification....

# Declaration of competing interest

The authors declare that they have no known competing financial interests or personal relationships that could have appeared to influence the work reported in this paper....

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Recommended articles

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