

PATENT SPECIFICATION

(11) 1 476 721



- (21) Application No. 47960/76 (22) Filed 11 Sept. 1973
 (62) Divided out of No. 1474377
 (23) Complete Specification filed 20 Aug. 1974
 (44) Complete Specification published 16 June 1977
 (51) INT CL² C07C 49/84
 (52) Index at acceptance
 C2C 222 227 22Y 304 30Y 351 355 35Y 364 36Y 388 624 625 655
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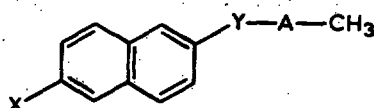
(72) Inventors CARL JOHN ROSE and
 ANTHONY WILLIAM LAKE

(54) 4-(6'-METHOXY-2'-NAPHTHYL)-BUTAN-2-ONE

(71) We, BEECHAM GROUP LIMITED, a British Company, of Beecham House, Great West Road, Brentford, Middlesex, do hereby declare the invention, for which we pray that a patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement:—

The present invention relates to 4 - (6' - methoxy - 2' - naphthyl) - butan - 2 - one.

Our co-pending application No. 42550/73 Serial No. 1,474,377, discloses inter alia the anti-inflammatory activity of the compounds of the formula (I):



wherein X is a chlorine or bromine atom, or a methoxyl, methylthio or alkyl group of 1-4 carbon atoms; Y is a

—CHR₁ —CH₂— or —CR₂=CH—

group wherein R₁ is a hydrogen atom or methyl group; and A is a CO or CHOH group. The compounds of the formula (I) had not previously been named in the scientific literature with the exception of 4 - (6' - methoxy - 2' - naphthyl) - butan - 2 - one which was erroneously reported by J. N. Chatterjea and R. Prasad in the Indian Journal of Chemistry, Volume II, March 1973, pp 214—218. The compound described in that publication was in the form of

a "thick pale yellow oil" whereas we have discovered that 4 - (6' - methoxy - 2' - naphthyl) - butan - 2 - one is a solid with a melting point of at least 78.5°C.

The present invention provides 4 - (6' - methoxy - 2' - naphthyl) - butan - 2 - one in solid form.

More suitably this invention provides 4 - (6' - methoxy - 2' - naphthyl) - butan - 2 - one in the form of a solid having a melting point of at least 78.5°C.

The following Example illustrates the preparation of the compound of this invention:

Example 1

4 - (6' - Methoxy - 2' - naphthyl) - butan - 2 - one

4 - (6' - Methoxy - 2' - naphthyl) - 3 - buten - 2 - one (32 g) (prepared as described in application No. 42550/73) in ethyl acetate (500 ml) was shaken at room temperature over 10% pd/C (3 g) under atmospheric pressure hydrogen until no further uptake of hydrogen occurred to yield 4 - (6' - methoxy - 2' - naphthyl) - butan - 2 - one (22.5 g), m.p. 78.5°C.

WHAT WE CLAIM IS:—

1. 4 - (6' - Methoxy - 2' - naphthyl) - butan - 2 - one in solid form.

2. 4 - (6' - Methoxy - 2' - naphthyl) - butan - 2 - one in the form of a solid having a melting point of at least 78.5°C.

A. W. WHITE,
 Chartered Patent Agent,
 Agent for the Applicants.

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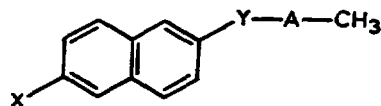
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