

Dibenzocycloheptene and its 10,11-dihydroderivatives

© Lidia P. Yunnikova, and Tatyana A. Akent'eva*⁺

Perm State Agricultural Academy. Pertropavlovskaya St., 23. Perm, 614000. Russia.
Phone: +7 (3422) 12-95-68. E-mail: yunnikova@yahoo.com; akentjeva-perm@rambler.ru

*Supervising author; ⁺Corresponding author

Keywords: 5H-dibenzo[a,d]cycloheptene (dibenzosuberene), 10,11-dihydro-5H-dibenzo[a,d]cycloheptene (dibenzosuberane), 5H-dibenzo[a,d]cycloheptene-5-ole (dibenzosuberene).

Abstract

Dibenzosuberene was obtained by interaction between dibenzosuberene and 1,3,5-cycloheptatriene and trifluoroacetic acid with high yield. The interaction of dibenzosuberene and triethylsilane in the same condition depends on the ratio of the reagents: the ratio 1:1 results in reduction of hydroxyl group, and dibenzosuberene is formed; and ratio 1:3 results in reduction of two groups – hydroxyl and 10, 11 CH=CH, and this process yields dibenzosuberane.