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Radical binding activity product of interaction of methyl ester of 3,4-dihydroxy-6-oxo-2,4-hexadiene acid with 1,2-diaminobenzene

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Abstract

Reaction of methyl 3,4-dihydroxy-6-oxo-2,4-hexadiene and 1,2-acid diaminobenzene was performed to obtain methyl (2Z)-[3-(2-oxopentyl) quinoxalin-2(1*H*)-ylidene] etanoat. On the basis of IR and ^{1}H NMR spectroscopy and mass spectroscopy the structure of the synthesized compounds was found out. Its radical binding activity in the reaction with DPPH (DPPH) was studied, which was at the level of the standard anti-radical activity - water-soluble form of vitamin E (Trolox).