

عنوان مقاله:

Nuclear Radiations Induced Change in Thermal and Structural Properties of Y-}[F-(Y-HydroxyBenzylideneamino) Phenylimino] Methyl{ Phenol (PAM) Schiff Base

محل انتشار:

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خلاصه مقاله:

The variation of thermal and structural properties of Y-{[F-(Y-hydroxybenzylideneamino) phenylimino]methyl}phenol (PAM)Schiff base were studied using differential scanning calorimetry (DSC) and powder X-ray diffraction techniques before and after fast neutron (1.000 and 1.YFokGy), beta (11.01Gy) and gamma (FDW.0Gy) irradiations. Under fast neutron irradiation, the melting and decomposition enthalpies and temperatures were changed with increasing the irradiation time. The kinetic parameters were calculated using both model free isoconversional and Kissinger analysis methods. .Gamma irradiation showed similar effectonstructural and thermal properties

كلمات كليدي:

Schiff Base, Model- Free Isoconversional Method, Kissinger Analysis Method, Fast Neutron, Beta, Gamma Irradiations

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