Synthesis of Some Anionic Surface-Active Agents Containing Hetero-Cyclic Moiety and Study of their Biological Activities

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Abstract: Sodium salt of a-sulphonated fatty acid hydrazide was used as starting material to synthesis some important heterocycles as phthalizine derivatives to produce novel groups of anionic surfactants having a double function, antimicrobial and surface active agents. The structures of these compounds were

performed by FTIR and CHN-analysis. The physical properties as (density, pH, concentration, color, viscosity and stability to hydrolysis) were determined. The surface active agents were used in (O/W) emulsions depend on value of (HLB) [Hydrophilic-Lipophilic Balance].