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The invention relates to the chemistry and specially, to the processes for preparation of 2-alkyl-6-methyl-N-(1'-methoxy-2'-propyl) - anilines and of their chloracetanilides. The process is carried out by catalytic reductive alkylation, wherein at least one mole equivalent of methoxyacetone is reacted with one mole equivalent of 2-alkyl-6-methyl-anilines without an additional solvent in the presence of a platinized carbon catalyst and of acid cocatalyst under a hydrogen pressure of between 2×10^5 and 1×10^6 Pa at a temperature between 20° and 80°C . The reaction mixture contains water from the beginning of the reaction and after the hydrogenation, base is added, then the catalyst is separated by filtration in the nitrogen atmosphere and recycled, after what the final product is extracted from the filtrate. The process is particularly used for preparation of N-substituted chloracetanilidic herbicides.

The technical result of the invention consists in the improvement of the ecologic and economic effects.