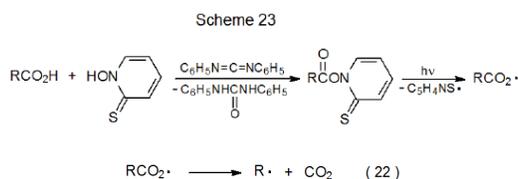
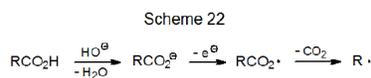


## VI. Reactions of Carboxylic Acids

Carboxylic acids cannot be converted directly into carboxyl radicals, but they can form these radicals indirectly. One method for indirect formation calls for converting the acid into its anion, which then is subjected to electrolysis (Scheme 22).<sup>95</sup> Other indirect methods require formation of carboxylic acid derivatives, such as esters of *N*-hydroxypyridine-2-thione, compounds that produce carboxyl radicals by photochemically initiated reaction (Scheme 23).<sup>96</sup> Carboxyl radicals expel carbon dioxide to produce carbon-centered radicals (eq 22).



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