

part of the determinable carbonyls in rancid fat do not originally exist in the oxidized fat as free carbonyls. They are apparently produced through breakdown of precursors by reaction conditions used in isolation. This seems to be also characteristic of autoxidized dehydrated potatoes. Samples stored in open air do not show appreciable compounds in their headspace vapors on enclosing in a flask, but show large concentration of carbonyls on steam distillation or hot reconstitution. Such conditions are brought about in normal food preparation and, therefore, these "bound" compounds are important in considering flavor.

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