

## عنوان مقاله:

Evaluating the Performance of Peroxide and Conjugated Diene Values in Monitoring Quality of Used Frying Oils

### محل انتشار:

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## خلاصه مقاله:

Frying oils showed an increase in Peroxide Value (PV) at the initial stages of the frying process followed by a decrease, and there was no correlation between PV and Total Polar Compounds (TPC) in the same set of frying oils. All the frying oils had PVs lower than F.FY meq OY kg-1 oil during the frying process and, consequently, none of them was above the limit of 1° meq OY kg-1 oil for edible oils. The variations of Conjugated Diene Value (CDV) presented a pattern different from that of PV. CDV had a good linear relationship with TPC during initial stages of the frying process and then reached a plateau (RY= •.9AWA). The plateau occurred beyond the TPC of YF-YV% for the frying oils, and there was an obvious increasing trend before the range mentioned. The contents found for con-jugated dienes of the frying oils during the frying process ranged from a to FY mmol L-1. Assuming that the limit of acceptance for TPC is .۲۴%, this roughly corresponded to ۲۹ mmol L-1 for CDV

كلمات كليدى: Carbonyl value, Conjugated diene value, Deterioration, Frying oil, Peroxide value, Total polar compounds

# لینک ثابت مقاله در پایگاه سیویلیکا:

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