Total fat, saturated fat and trans fat were determined in the food with claims to be free of trans fatty acids. A comparison of these components was made between the levels found and declared on the packaging. Were analyzed 114 samples of foods (margarine, ice cream, sandwich cookies, filled wafer, cake and snack package). The samples were purchased in local supermarkets. Were analyzed different brands. Each brand was represented by three lots of different manufacturing dates. Each batch was composed of three containers randomly sampled. The samples were homogenized and aliquots were taken for analysis in triplicate. The fatty acid composition was determined by gas chromatography using a CP-SIL 88 capillary column (100 m x 0.25 mm; 0.20 μm). The total lipid content varied from 4.1 in the ice cream to 15.9 g/serving in the cake. The saturated fatty acids and trans fatty acids contents varied, respectively, from 1.3 to 7.2 and 0.0 to 2.7 g/serving. Among the samples analyzed, only two showed differences between the levels of total lipids obtained and the values declared on the packaging (g/serving), exceeding the 20% tolerance allowed by current legislation. With regard to saturated fat, fifteen samples showed disagreement with the legislation. In relation to the trans fat content only two samples that exhibited the appeal "0% trans fat" have presented above the value allowed for this claim. Three samples did not present the claim "0% trans fat" on the label, which showed high levels of trans fatty acids.