



# INDOFINE Chemical Company, Inc.

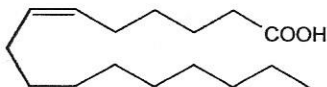
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## 6(Z)-Hexadecenoic acid (Sapienic acid)



Amount: 5 mg

Physical state: Colorless oil dissolved in 95% ethanol

Solvent: 95% ethanol

Volume: 0.5 mL

Cat. no.: 10-1606

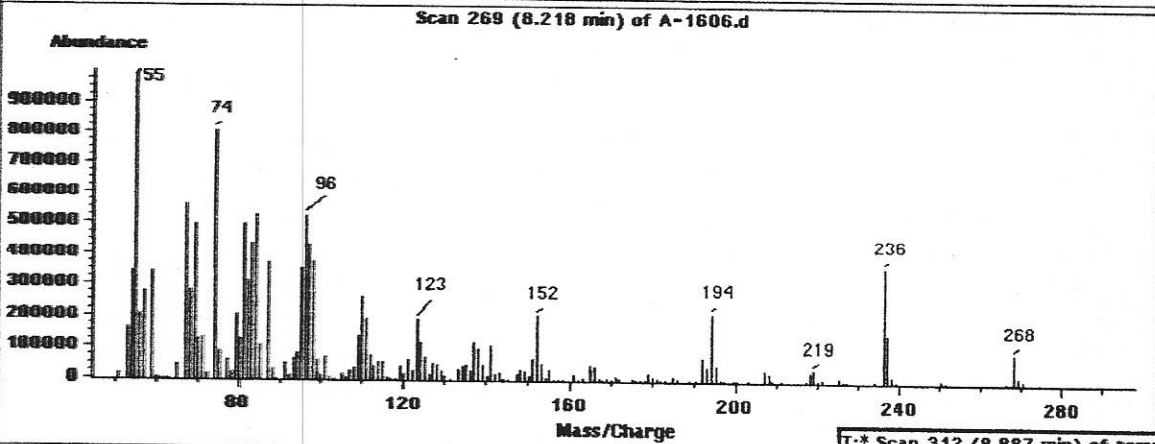
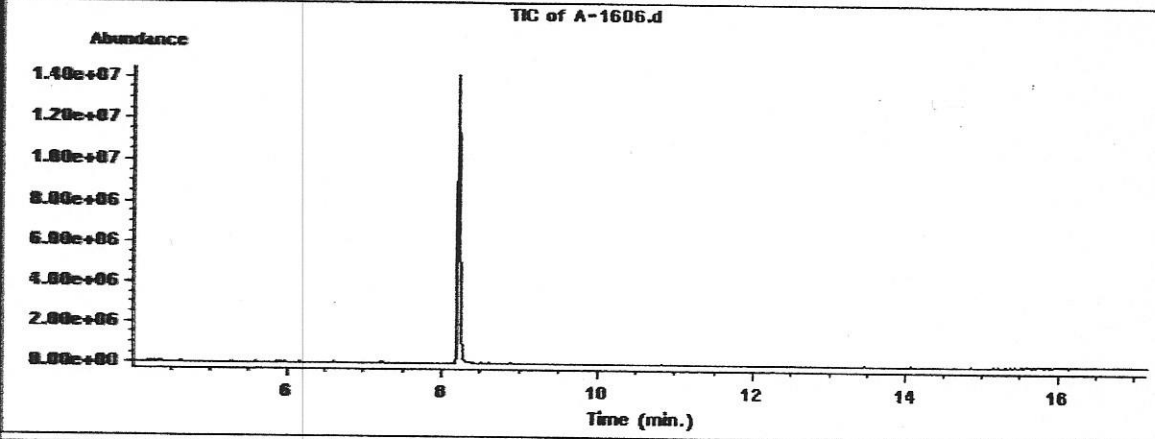
Lot No.: LX-155

### Identity

The identity of the material is based on its mode of preparation and on the mass spectrum of the methyl ester derivative showing *e.g.* a molecular ion at  $m/z$  268 (attached). Oxidative ozonolysis performed on the methyl ester yielded a 1:1 mixture of methyl hydrogen adipate and decanoic acid, thus proving the double bond location at  $\Delta^6$ .

### Purity

>98%. The purity was determined by GC-MS analysis of the methyl ester derivative using a capillary column of 5% phenylmethylsiloxane (12 m, 0.33  $\mu$ m film thickness, carrier gas: helium). The temperature was raised from 120°C to 300°C at a rate of 10°C/min (GC-MS analysis attached). Analysis by GLC (FID detection) was carried out using a methylsilicone capillary column (25 m, 0.33  $\mu$ m film thickness, carrier gas: helium). The oven temperature was increased from 180°C at a rate of 5°C/min (chromatogram attached).



T:\* Scan 312 (8.887 min) of term  
Z: TIC of A-1606.d  
Y:\* Scan 312 (8.887 min) of term  
X: Scan 269 (8.218 min) of A-1606.d

A-1606 analyzed as the methyl ester by GLC-FID

