

Combined Methods Impurities in Polymer Grade Ethylene and Propylene

Configuration of an Agilent Technologies 6890N Series Gas Chromatograph with dual flame ionization detectors (FID/FID) for Trace Impurities in Polymer Grade Ethylene and Propylene analysis.

Method 1 performs the trace impurities analysis in polymer-grade ethylene.

FID I Identified Components

- 1-Butene
- Acetylene
- Carbon dioxide
- Carbon monoxide
- Cis-2-Butene
- Ethane
- FID 2 detects:
- Isobutane
- Isobutylene
- Methane
- Methane
- Methyl acetylene
- n-Butane
- Propadiene
- Propane
- Propylene
- Trans-2-Butene

Method 2 performs the trace impurities analysis in polymer-grade propylene.

FID I Identified Components

- 1, 3-Butadiene
- 1-Butene
- Acetylene
- Carbon dioxide
- Carbon monoxide
- cis-2-Butene
- Ethane
- Ethylene
- FID 2 detects:
- Isobutane
- Isobutene
- Isopentane
- Methane
- Methane
- Methyl acetylene
- n-Butane
- n-Pentane
- Propadiene
- Propane
- trans-2-Butene