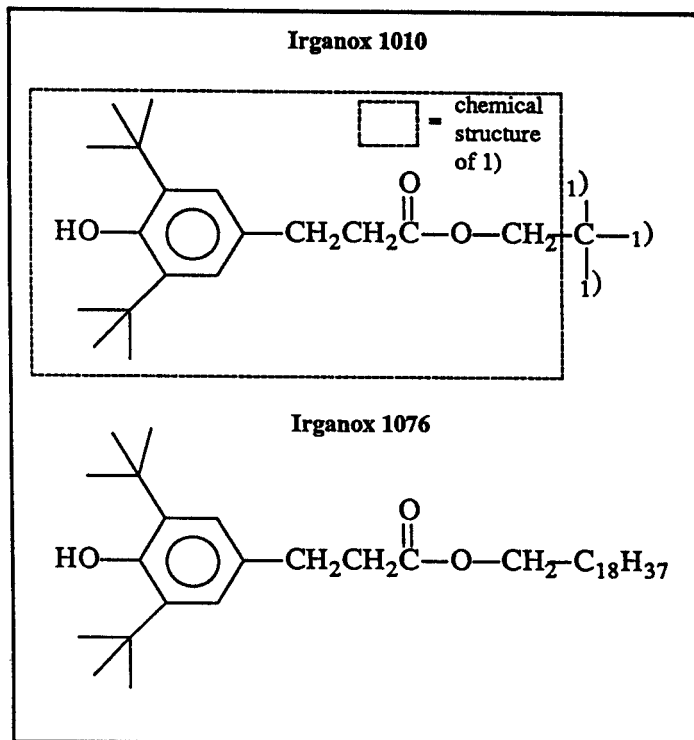


Extraction and Quantization of Anti-oxidants in Polymer Application of non-aqueous reverse phase chromatography

Anti-oxidants may be extracted from plastics and separated by HPLC. If care is taken that the sample is injected in a complementary solvent then minimal sample clean-up is required other than a simple filtration step after dissolution of the plastic sample. Elution is rapid with good separation of the Irganox additives. Alternative mobile phase compositions include the use of ethyl acetate and dichloromethane phases.

Column: Spherisorb S5 ODS1, 10cm x 4.6mm
 Catalogue Number: 830612
Flow: 1.0ml/min
Detn: 280nm
Eluent: Acetonitrile
Sample: Synthetic mixture of Irganox Antioxidants
Injection: 20µl

Chemical Structures of Irganox Antioxidants



Separation of Irganox 1010 and 1076

