

## ATR-IR - Plasticizers - Bio-Rad Sadtler

Product Code - This database is available only as part of the KnowItAll® ATR-IR Spectral Library Spectra - 90

Bio-Rad Laboratories is the leading producer of IR and Raman spectral databases with their Sadtler™ Spectral Databases, known for their high-quality.

### Description

Plasticizers are additives that increase the plasticity or fluidity a material and make it possible to achieve improved compound processing characteristics. This Sadtler database contains ATR-IR spectra that include some of the products available on the market and reflect the diversity of processing chemicals. It can be used by researchers to facilitate structural determination and identification of these substances.

### Additional Information

Each record is identified by chemical/trade name and includes the following (when available): synonyms, method of analysis, structural formula, molecular formula, molecular weight, CAS Registry number, source of sample, source of spectrum, catalog number, lot number, and instrument.

### Technique

All spectra were measured on a Bio-Rad FTS-175C Fourier Transform Infrared Spectrometer equipped with KBr beam splitter and a peltier cooled DTGS detector. A Smiths Detection DuraSampII RTM II Diamond ATR Accessory, an in-compartment diamond attenuated total reflectance accessory, was used to produce the ATR spectra.

The ATR technique is employed because only a small amount of sample is needed while minimal sample preparation is required. Samples were analyzed using the neat or film method and the solvent used in the film is methylene chloride. In some cases, the samples were ground to improve the display of the ATR spectrum.

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