

280SO0016

Q. Which algorithm should be selected when using [Data Comparison] of [Spectral Analysis] program?

A. There are eight comparison algorithms in [Data comparison], but in the analysis of IR spectra, three of the following are mainly used: (1) Euclidean distance, (2) Derivative euclidean distance, and (3) Correlation coefficient. In general, (1) is used for evaluating broad peaks, (2) is used when the baseline is distorted or user wants to evaluate sharp peaks, and (3) is used when the spectrum is noisy. The outlines, advantages, disadvantages and usage examples of the three algorithms are shown in following table.

