FDM ATR BTEX Mixtures

1-component to 6-component mixture spectra that model combinations of the six BTEX chemicals: benzene, toluene, ethylbenzene and o-,m-, and p-xylenes.

Intended for petroleum screening applications such a prior to GC analysis.

The FDM Mixture Libraries make use of the linearity available with ATR sampling to provide calibration free semiquantitative analysis. Ignores system or experimental noise and/or error. Ignores IR transparent components.

Note the 1C spectra are the neat samples. The 2C..6C spectra are described as percentages.

Examples from the chemical name index:

FDM ATR BTEX Mixtures 1C

B; Benzene, 71-43-2
EB; Ethylbenzene, 100-41-4
mX; m-Xylene, 108-38-3
oX; o-Xylene, 95-47-6
pX; p-Xylene, 106-42-3
T; Toluene, 108-88-3

FDM ATR BTEX Mixtures 2C

B[5%] + EB[95%]
B[10%] + EB[90%]
B[15%] + EB[85%]
B[20%] + EB[80%]
B[25%] + EB[75%] …

B[10%] + mX[90%]
B[15%] + mX[85%]
B[20%] + mX[80%]
B[25%] + mX[75%]
B[30%] + mX[70%] …

FDM ATR BTEX Mixtures 3C

B[5%] + EB[5%] + mX[90%]
B[5%] + EB[10%] + mX[85%]
B[5%] + EB[15%] + mX[80%]
B[5%] + EB[20%] + mX[75%]
B[5%] + EB[25%] + mX[70%] …