Tosylcellulose synthesis in aqueous medium

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Complementary Data:

NMR Data of compound with DS: 0.97 (entry 7 table 1).
P8 dans DMSO-d6/LiCl - Spectre RMN 1H
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XPS Data of the same compound with a DS of: 0.96 (entry 7 table 1).

First measure point:
Second measure point:
Third measure point:

![Graph with data points and energy levels]
DRX measurements Information:

Example of DRX spectra deconvolution:

Debye-Scherrer equation: 

\[
L_{hkl} = \frac{K \times \lambda}{\Delta \theta \times \cos(\theta)}
\]

\(L_{hkl}\) is the crystallite size in the direction perpendicular to plane with hkl as Miller index. \(\lambda\) is the X-ray wavelength. \(\Delta \theta\) is the half-width of the diffraction peak.

Estimation of degree of crystallinity:

\[
CI = \frac{I_{002} - I_{am}}{I_{002}} \times 100 \quad \text{Or} \quad CI = \frac{A_{002}}{A_{002} + A_{am}} \times 100 \quad (I \text{ and } A \text{ are the intensity and the area of the diffraction peak}).
\]