

KBr Reference Data at Different Temperatures

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Tags: Reference CO DRFITS KBr

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Goal :

To collect KBr data for a series of different temperatures for future subtractions.

Procedure :

KBr treated in atmosphere for 1 hour 225 °C

New water and carbonyl trap

Background run at 2 cm⁻¹ resolution with 512 scans, in atmosphere at rt
LC0061.0

CO gas phase that never leaves is back so flushing with O₂ to remove the signal

Run second background after flushing

LC0061.1

Re do background with actual signal this time

LC0061.2

LC0061.0000-0024 Room temperature in flow

LC0061.0025-0049 50 °C in flow

LC0061.0050-0074 75 °C in flow

LC0061.0075-0099 100 °C in flow

LC0061.0100-0124 125 °C in flow

LC0061.0125-0149 150 °C in flow

Cool down to rt and start the batch experiments

Results :

KBr data was successfully collected from 21 °C to 150 °C.

(Data saved - DRIFTS PC; Folder - Data --> L Caulfield; File name - 20230411_KBr_Refrences_Temp_Pressure_changes)



Unique eLabID: 20230706-d814de17ba8c89485756dc9cbcd6242a63819a6c
Link: <https://ifgselabftw.ifg.kit.edu/experiments.php?mode=view&id=2300>