

## Solutions of Fully Exfoliated Individual Graphene Flakes in Low Boiling Point Solvents.

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### Supplementary information:

#### X-ray diffraction diagram of KC<sub>8</sub>.

To verify the correct synthesis of KC<sub>8</sub>, beyond the already very informative color change (greyish to golden shine), an X-ray powder diffraction diagram of the synthesized KC<sub>8</sub> was performed. (Figure S1). On figure 1, one can observe the full disappearance of the 002 graphitic peak, corresponding to a interlayer distance of 3.35 Å, replaced by a new peak, at lower wavevector, corresponding to the interlayer distance of KC<sub>8</sub>, 5.43 Å.

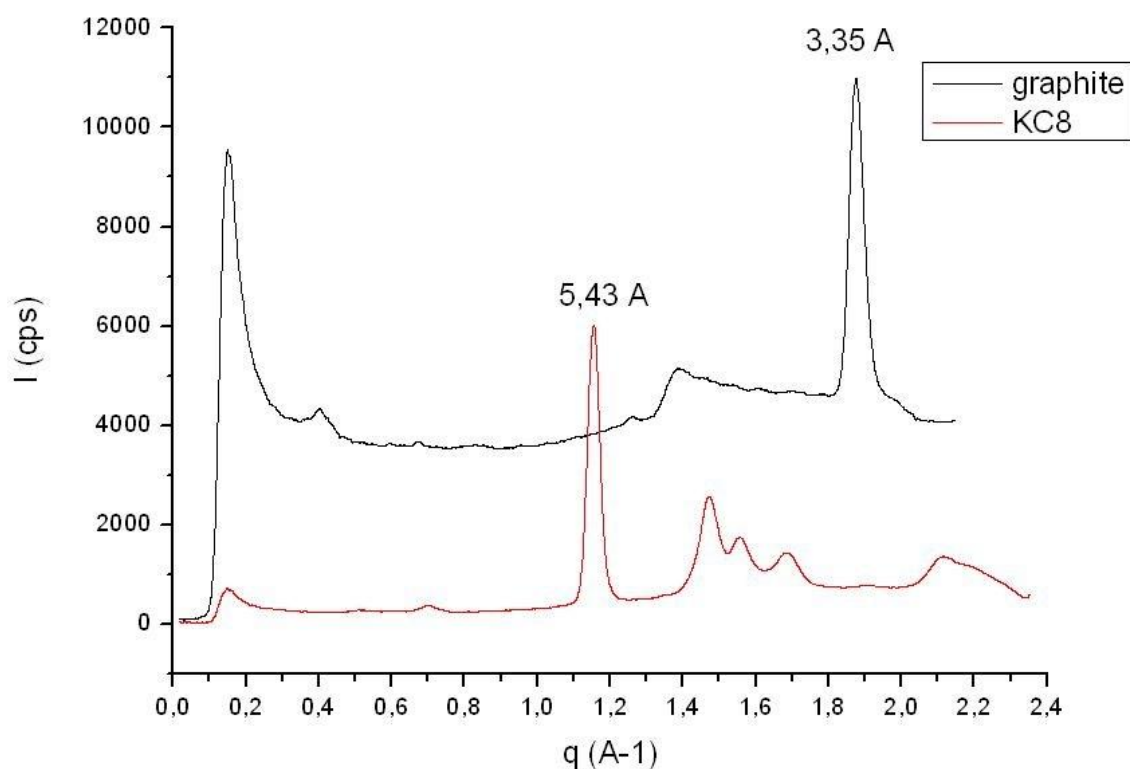


Figure S1. X-ray powder diffraction diagram of the as-synthesized KC<sub>8</sub> compound, sealed under Ar atmosphere in a Lindeman capillary. (Cu K $\alpha$  radiation,  $\lambda$  = 1.54 Å)