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

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Supplementary information:

X-ray diffraction diagram of KC$_8$.

To verify the correct synthesis of KC$_8$, beyond the already very informative color change (greyish to golden shine), an X-ray powder diffraction diagram of the synthetized KC$_8$ was performed. (Figure S1). On figure 1, one can observe the full disapearance 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$_8$, 5.43 Å.

![X-ray powder diffraction diagram](image)

Figure S1. X-ray powder diffraction diagram of the as-synthetized KC$_8$ compound, sealed under Ar atmosphere in a Lindeman capillary. (Cu Kα radiation, l = 1.54 Å)