## **Supporting information**

## 6-Chloro-3H-benzo[d][1,2,3]dithiazol-2-ium Chloride

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All data was recorded using a Bruker Avance III HD spectrometer operating at 400.1, 100.6 MHz for 1H and 13C, respectively. Carbon-13 magic-angle spinning measurements were carried out at 100.6 MHz using a Bruker Avance III HD spectrometer and 4 mm (rotor o.d.) probe. Spectra were acquired at a spin rate of 10 kHz. Cross-polarisation (CP) spectra were recorded with TOSS spinning sideband suppression, 1 ms contact time and with a recycle delay of either 1 s. The recycle delay and contact time were optimised for each sample. Carbon spectral referencing is relative to neat tetramethylsilane, carried out by setting the high-frequency signal from an external sample of adamantane to 38.5 ppm. In addition to the CPTOSS spectrum, for cg052/900000068-95-9 a phase inverted (cppi\_toss) experiment was preformed to obtain negative CH<sub>2</sub>, null CH, and positive C and CH<sub>3</sub>. The difference between this and the original spectra is also provided.







