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Supporting information for article:

Co(NCS)2(abpt)2 and $\mathrm{Ni}(\mathrm{NCS}) 2($ abpt $) 2$ [abpt is 4 -amino-3,5-bis-(pyridin-2-yl)-1,2,4-triazole]: structural characterization of polymorphs A and B

Helen E. Mason, Judith A. K. Howard and Hazel A. Sparkes

Table S1 Experimental details at 300 (2) K
$\mathrm{Co}(\mathrm{abpt})_{2}(\mathrm{NCS})_{2}$ Polymorph A $\quad \mathrm{Co}(\mathrm{abpt})_{2}(\mathrm{NCS})_{2}$ Polymorph B

Crystal data

| Chemical <br> formula | $\mathrm{C}_{26} \mathrm{H}_{20} \mathrm{CoN}_{14} \mathrm{~S}_{2}$ | $\mathrm{C}_{26} \mathrm{H}_{20} \mathrm{CoN}_{14} \mathrm{~S}_{2}$ |
| :---: | :---: | :---: |
| $M_{\text {r }}$ | 651.61 | 651.61 |
| Crystal system, space group | Monoclinic, $P 2_{1} / n$ | Monoclinic, $P 2_{1} / n$ |
| Temperature (K) | 300 | 300 |
| $a, b, c(\AA)$ | 8.487 (5), 10.249 (6), 16.539 (10) | 11.5855 (6), 9.5998 (5), 12.8411 (6) |
| $\beta\left({ }^{\circ}\right)$ | 93.419 (13) | 101.300 (1) |
| $V\left(\AA^{3}\right)$ | 1435.9 (14) | 1400.48 (12) |
| Z | 2 | 2 |
| Radiation type | Mo $K \alpha$ | Mo $K \alpha$ |
| $\mu\left(\mathrm{mm}^{-1}\right)$ | 0.79 | 0.81 |
| Crystal size (mm) | $0.24 \times 0.16 \times 0.12$ | $0.48 \times 0.22 \times 0.1$ |
| Data collection |  |  |
| Diffractometer | Bruker SMART CCD 1 K area detector | Bruker SMART CCD 1K area detector |
| Absorption | Multi-scan | Multi-scan |
| correction | SADABS2008/1 (Bruker,2008) was used for absorption correction. wR2(int) was 0.1268 before and 0.0594 after correction. The Ratio of minimum to maximum transmission is 0.7415 . The $\lambda / 2$ correction factor is 0.0015 . | SADABS2008/1 (Bruker,2008) was used for absorption correction. wR2(int) was 0.0699 before and 0.0469 after correction. The Ratio of minimum to maximum transmission is 0.9080 . The $\lambda / 2$ correction factor is 0.0015 . |
| $T_{\text {min }}, T_{\text {max }}$ | 0.683, 0.921 | 0.805, 0.887 |
| No. of measured, independent and | 7130, 2605, 1378 | 7562, 2565, 2034 |


| $2 \sigma(I)]$ reflections |  |  |
| :---: | :---: | :---: |
| $R_{\text {int }}$ | 0.087 | 0.031 |
| $(\sin \theta / \lambda)_{\text {max }}\left(\AA^{-1}\right)$ | 0.602 | 0.602 |
| Refinement |  |  |
| $\begin{aligned} & R\left[F^{2}>2 \sigma\left(F^{2}\right)\right], \\ & w R\left(F^{2}\right), S \end{aligned}$ | 0.059, 0.166, 1.02 | 0.034, 0.079, 1.03 |
| No. of reflections | 2605 | 2565 |
| No. of parameters | 202 | 202 |
| No. of restraints | 0 | 0 |
| H -atom <br> treatment | H atoms treated by a mixture of independent and constrained refinement | H atoms treated by a mixture of independent and constrained refinement |
| $\begin{aligned} & \Delta \rho_{\max }, \Delta \rho_{\min }(\mathrm{e} \\ & \left.\AA^{-3}\right) \end{aligned}$ | 0.36, -0.47 | 0.22, -0.27 |

