[CoCl\(_2\)(C\(_{12}\)H\(_8\)N\(_2\))\(_2\)]
Mr = 490.24 g/mol

Monoclinic

\(a = 10.2035 \pm 11 \ \text{Å}\).
\(b = 16.6206 \pm 16 \ \text{Å}\).
\(c = 14.4854 \pm 11 \ \text{Å}\).
\(\beta = 122.760 \pm 5^\circ\).

\(V = 2065.8 \pm 4 \ \text{Å}^3\).

Measured density, 1.58 g/cm\(^3\).

Mo K\(\alpha\).

Data collection

Bruker D8 VENTURE Photon 100 CMOS diffractometer

Absorption correction: Multi-scan (SADABS; Sheldrick, 2003).

\(T_{\text{min}} = 0.663, T_{\text{max}} = 0.746\).

18709 measured reflections
4037 independent reflections
2735 reflections with \(I > 2\sigma(I)\).

\(R_{\text{int}} = 0.073\).
Wilson curve: \( U(\text{mean}) = 0.033 \quad K = 1.042 \)

\[ \ln\left(\frac{F(\text{obs})}{\text{sigma}}\right) = \frac{1}{2} \left(\frac{\sin(\theta)}{\lambda}\right)^2 \]

Distribution of E's - all data

- Experimental
- Acentric
- Centric
- Hypercentric

\[ \text{mod}(E) \]

\[ \text{cumulative \% of \text{E}}(E) \]