1. Data curation

Manually curated Chemistry olympiads University exams

· Semi-programatically curated

University exercise sheets

Daily allowed intakes

GHS pictograms

Hazard statements

Number of NMR peaks

Electron counts

IUPAC-SMILES questions

Oxidation states

Point groups

2. Semantic annotation

Reactions —

[START_RXNSMILES] [END_RXNSMILES]

Molecules -

[START_SMILES] [END_SMILES]

\ce{C6H6}

Units -

 $pu\{m^{-3}\}$



 $a^2 + b^2 = c^2$



3. Review

Manual inspection –

Factual correctness Clarity and phrasing

Error analysis

–Automatic checks

Invariance to shuffling

Spelling

