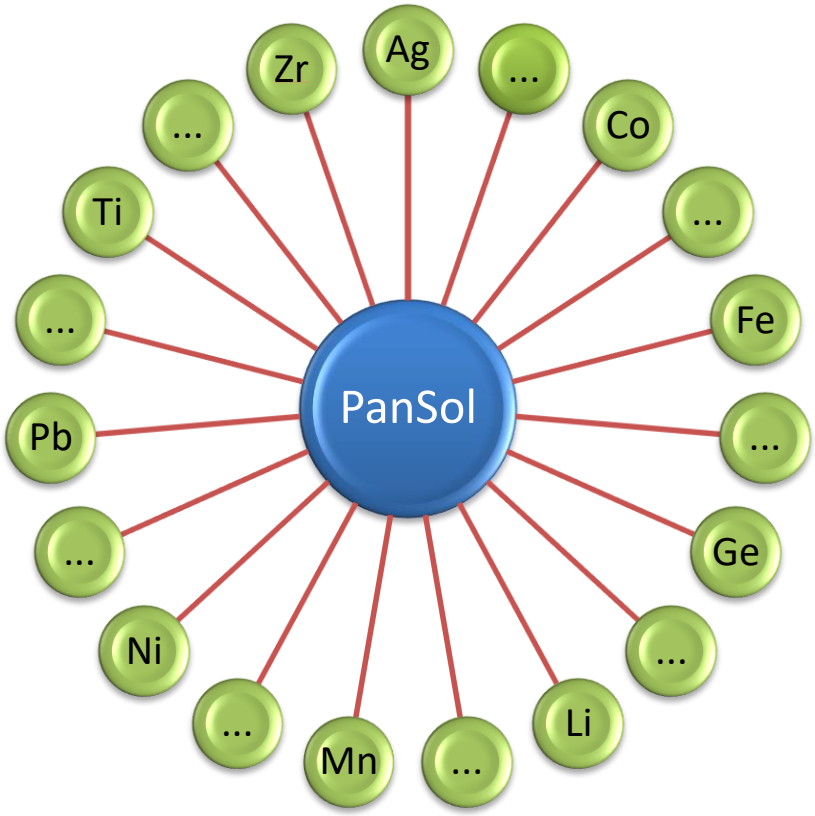
1. PanSolution

Thermodynamic Database for Multiple Binary Systems



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1.1 General Information

This database includes 79 elements and covers a total of 779 binary systems. The binary systems having been assessed are highlighted in Table 1.1. A total of 2042 phases including various multicomponent solution phases and many important intermetallic compounds have been assessed in PanSolution database. The composition ranges are limited to the assessed binary systems. Extrapolation to the ternaries may not be accurate.

PanSolution database can be used as a reference library for binary phase diagrams. User can obtain a lot of useful information via calculations, such as phase composition range, invariant reactions, liquidus temperatures and so on. User may also examine phase stabilities in ternary or high order systems via simple assumption of extrapolation.
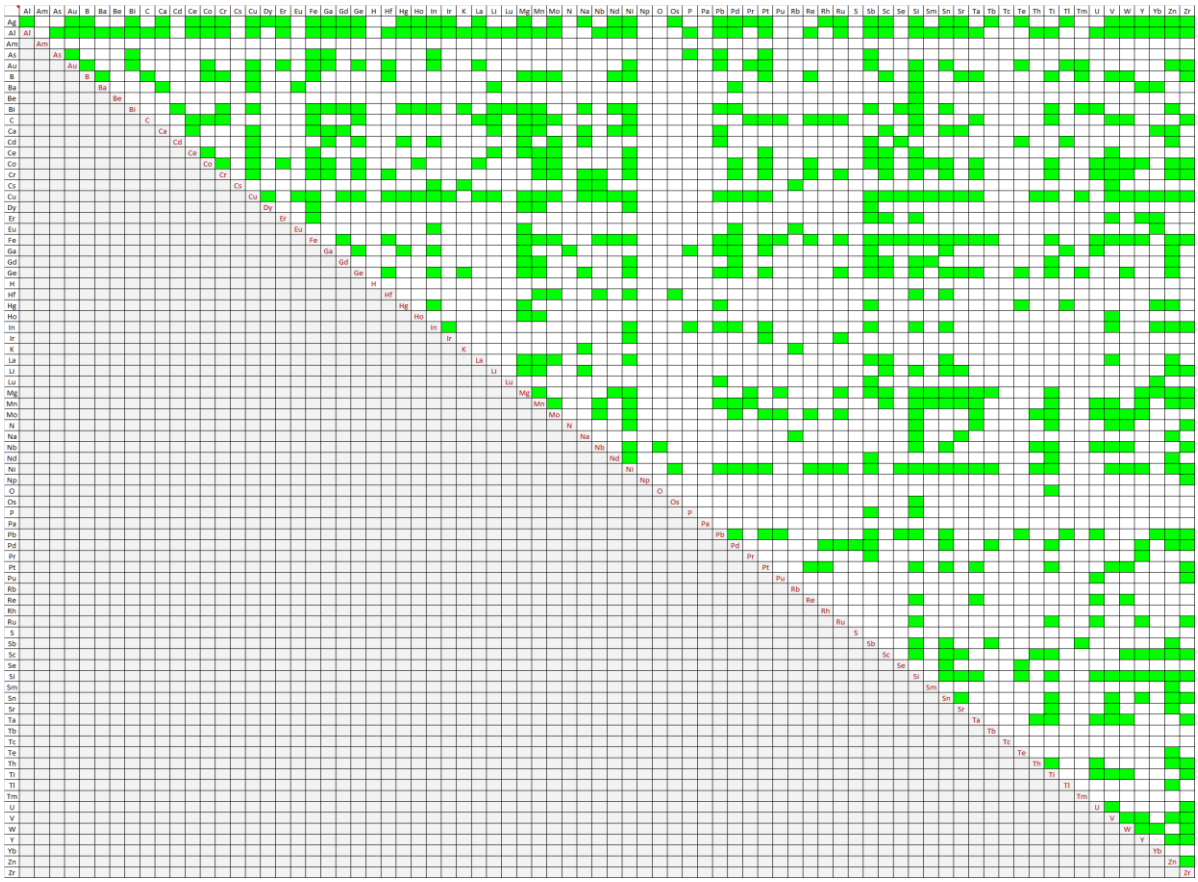
Table 1.1: Assessed binary systems in PanSolution database