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## LIST L - MINERALS - HIERARCHICAL LIST

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- minerals
  - alloys (including carbides, nitrides, phosphides, silicides)
  - antimonates
  - antimonides
  - antimonites
  - arsenates
  - arsenides
  - arsenites
  - bismuthides
  - borates
  - bromides
  - carbides
  - carbonates
  - chlorides
  - chromates
  - fluoborates
  - fluorides
  - fluosilicates
  - germanates
  - halides (includes bromides, chlorides, fluoborates, fluosilicates, iodides, and fluorides)
  - hydrates
  - iodates
  - iodides
  - molybdates
  - native elements
  - niobates
  - nitrates
  - nitrides
  - organic minerals
  - oxalates
  - oxides (including germanates, niobates, and tantalates)
  - oxysulfides
  - phosphates
  - phosphides
  - selenates
  - selenides
  - selenites
  - silicates (use a narrower term below if dealing with specific mineral; otherwise larger group)
    - aluminosilicates
    - orthosilicates
      - sorosilicates
        - orthosilicates, axinite group
        - orthosilicates, chevkinite group
        - orthosilicates, epidote group
        - orthosilicates, melilite group
        - orthosilicates, pumpellyite group
        - orthosilicates, thortveitite group
      - nesosilicates
      - orthosilicates, britholite group
      - orthosilicates, datolite group
      - orthosilicates, garnet group
      - orthosilicates, olivine group
      - orthosilicates, phenakite group
      - orthosilicates, titanite group
      - orthosilicates, zircon group
    - ring silicates (cyclosilicates)
      - ring silicates, milarite group
      - ring silicates, tourmaline group
    - chain silicates (inosilicates)
      - chain silicates, aenigmatite group
      - chain silicates, amphibole group
        - chain silicates, alkalic amphibole
        - chain silicates, clinoamphibole
        - chain silicates, orthoamphibole
      - chain silicates, pyroxene group
        - chain silicates, alkalic pyroxene
        - chain silicates, clinopyroxene
        - chain silicates, orthopyroxene
      - chain silicates, rhodonite group
      - chain silicates, wollastonite group
    - sheet silicates (phyllosilicates)
      - sheet silicates, chlorite group
      - sheet silicates, clay minerals
      - sheet silicates, mica group
      - sheet silicates, serpentine group
    - framework silicates (tectosilicates)
      - framework silicates, feldspar group
        - framework silicates, alkali feldspar
        - framework silicates, barium feldspar
        - framework silicates, plagioclase
        - framework silicates, nepheline group
        - framework silicates, scapolite group
        - framework silicates, silica minerals
        - framework silicates, sodalite group
        - framework silicates, zeolite group
  - silicides
  - sulfates
  - sulfides (including antimonides, arsenides, bismuthides, oxysulfides, selenides, and tellurides)
  - sulfosalts (including sulfantimonates, sulfantimonites, sulfarsenates, sulfarsenites, sulfobismuthites, sulfogermanates, sulfostannates, and sulfovanadates)
  - tantalates
  - tellurates
  - tellurides
  - tellurites
  - tungstates
  - vanadates