

Labels, occurrence, host rock and mineral assemblages of the Somma-Vesuvius samples. Sample provenances (see Fig. 1) are Somma Vesuviana and Ercolano (Avellino eruption) and Terzigno (Pompeii eruption).

§ Abbreviations (after Warr, 2021): An, anorthite; Ap, apatite; Bdy, baddeleyite; Bri, britholite-(Ce); Cal, calcite; Chn, chondrodite; Chu, clinohumite; Cpx, clinopyroxene; Dol, dolomite; Flr, fluorite; Fsp, feldspar; Gn, galena; Grt, garnet; Hu, humite; Lc, leucite; Mag, magnetite; Mca, mica; Me, meionite; Mim, mimetite; Nph, nepheline; Ol, olivine; Pcl, pyrochlore supergroup minerals; Prv, perovskite; Py, pyrite; Sdl, sodalite; Spl, spinel; Syl, sylvite; Tho, thorianite; Ttn, titanite; Ves, vesuvianite; Zrc, zirconolite. Further minerals, detected in trace amounts, are undetermined mixed Si-Zn-Fe-Pb phase (PS44), likely stolzite (PS82) and bismoclite (PS55, PS80, PS81, PSK-R), as well as cuspidine (PS77).