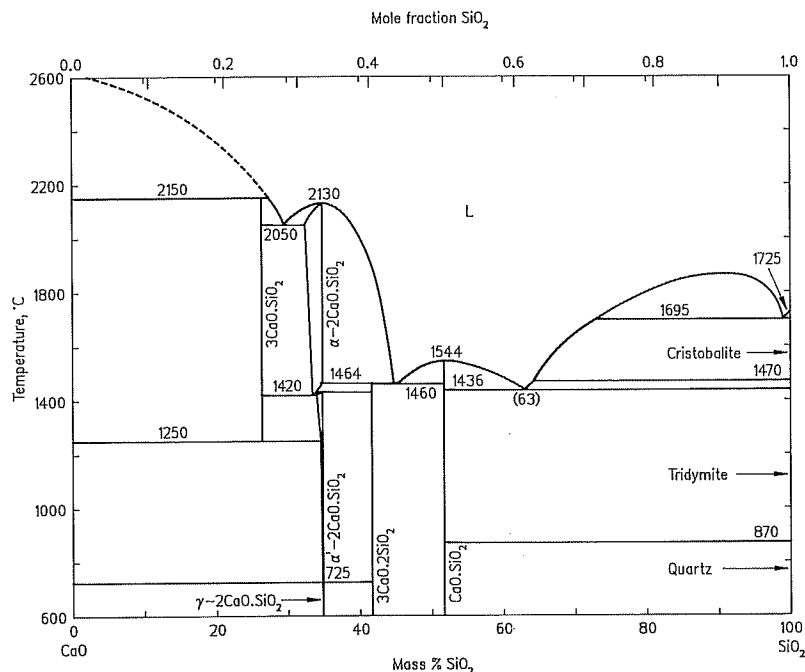


CaO-SiO₂

Fig. 3.70. CaO-SiO₂ phase diagram after Muan, Osborn [1], based mainly on the work of Rankin, Wright [2], and with revisions according to Tewhey, Hess [3] and Hageman et al. [4] (miscibility gap), Welch, Gutt [5], Gutt [6] and Gutt, Russell [7] (melting relations involving 3CaO·SiO₂) and Trömel et al. [8] (CaO excess in 2CaO·SiO₂). An alternative version of the system in the CaO-rich region, with the stability range of 3CaO·SiO₂ between 1300 and 1800 °C, was reported by Trömel et al. [8]. For the polymorphism in 2CaO·SiO₂, see also Foster [9] and Hanic et al. [10]. For thermodynamic assessments of the system and calculated phase diagrams, see an Mey [11], Taylor, Dinsdale [12], Eriksson et al. [13] and Hillert et al. [14, 15] (Figs. 3.I to 3.IV).

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CaO-TiO₂

Fig. 3.71. CaO-TiO₂ phase diagram after Tulgar [1]. For earlier versions of the phase diagram, see DeVries et al. [2], Roth [3] and Jongejan, Wilkins [4]. An additional compound of composition 4CaO·3TiO₂ has been reported by Roth [3] and Jongejan, Wilkins [4]. After Imlach, Glasser [5], Kimura, Muan [6] and Shultz [7] only one solution phase, between the end-compositions 3CaO·2TiO₂ and 4CaO·3TiO₂, exists in this part of the system. For additional information about calcium titanates, see Reznitskii [8].

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