

the assignment^{12,13,14} of 16 molecules to the coesite cell—that is, the measured density is compatible with the 16 molecule unit and with the *Rm* value calculated. If the coesite cell contained 18 molecules the measured density would be considerably in error (2.90 vs. 3.26) and the *Rm* based on the higher density would be almost 12 per cent lower than for quartz, suggestive of 6-coordinated Si, and of a rutile structure, which clearly coesite does not have.

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¹² TIBOR ZOLTAI and M. J. BUEGER, The crystal structure of coesite, the dense, high pressure form of silica. *Z. Kristallogr.* **111** (1959) 129–141.

¹³ L. S. RAMSDELL, The crystallography of coesite. *Am. Min.* **40** (1955) 975–982.

¹⁴ FRANK DACHILLE and RUSTUM ROY, High pressure region of the silica isotypes. *Z. Kristallogr.* **111** (1959) 451–461.