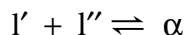


**syntectic reaction**

A reversible reaction that involves the conversion of two liquid phases,  $l'$  and  $l''$ , into a solid phase  $\alpha$  on cooling:



The maximum temperature at which this reaction can occur is the congruent melting point of the solid phase.

Example: The conversion of co-existing K-rich and Zn-rich phases in the K–Zn system to form an intermediate solid phase  $KZn_{13}$ .

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