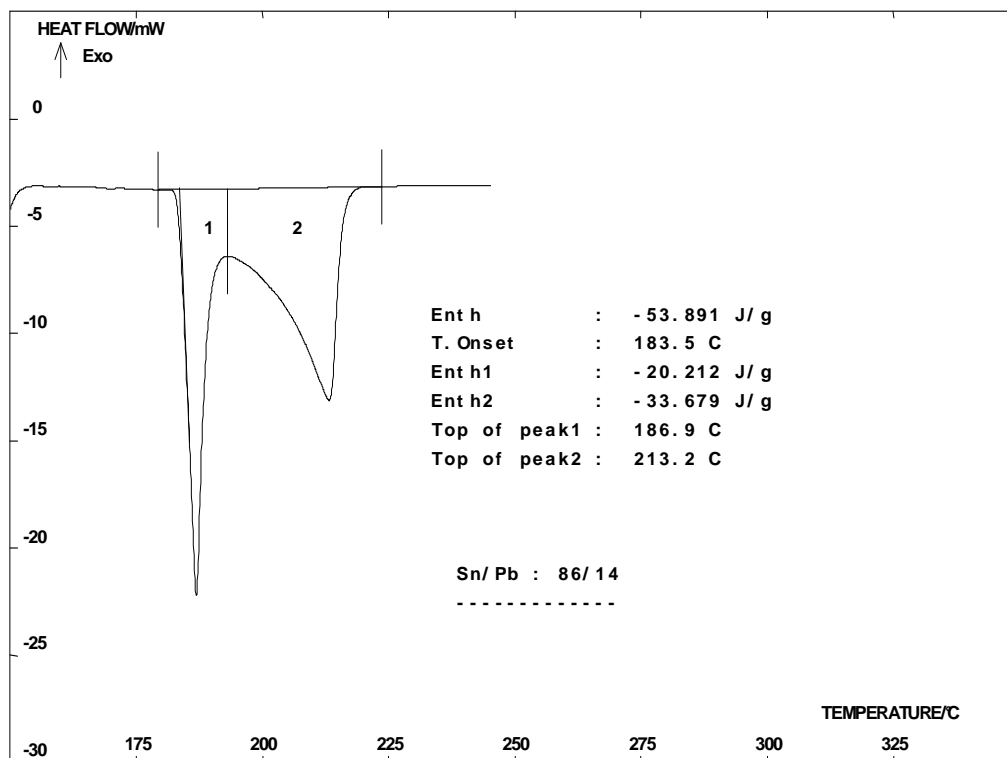


Melting of Pb-Sn alloy



Experimental :

Sample : 86% Sn + 14% Pb (W/W).
 Sample mass : 117.2 mg.
 Stainless steel crucible.
 The temperature is programmed at 2 K.min⁻¹.

Conclusion:

The melting curve presents two peaks. In fact only pure substances melt presenting a unique peak : generally alloys present a more complex melting curve. In this case Pb and Sn present an eutectic at 183.5°C. The end of melting corresponds to the liquidus curve. M 119 presents the phase diagram of Pb-Sn system.

Instrument :

DSC 131 evo
 -170°C / 700°C

