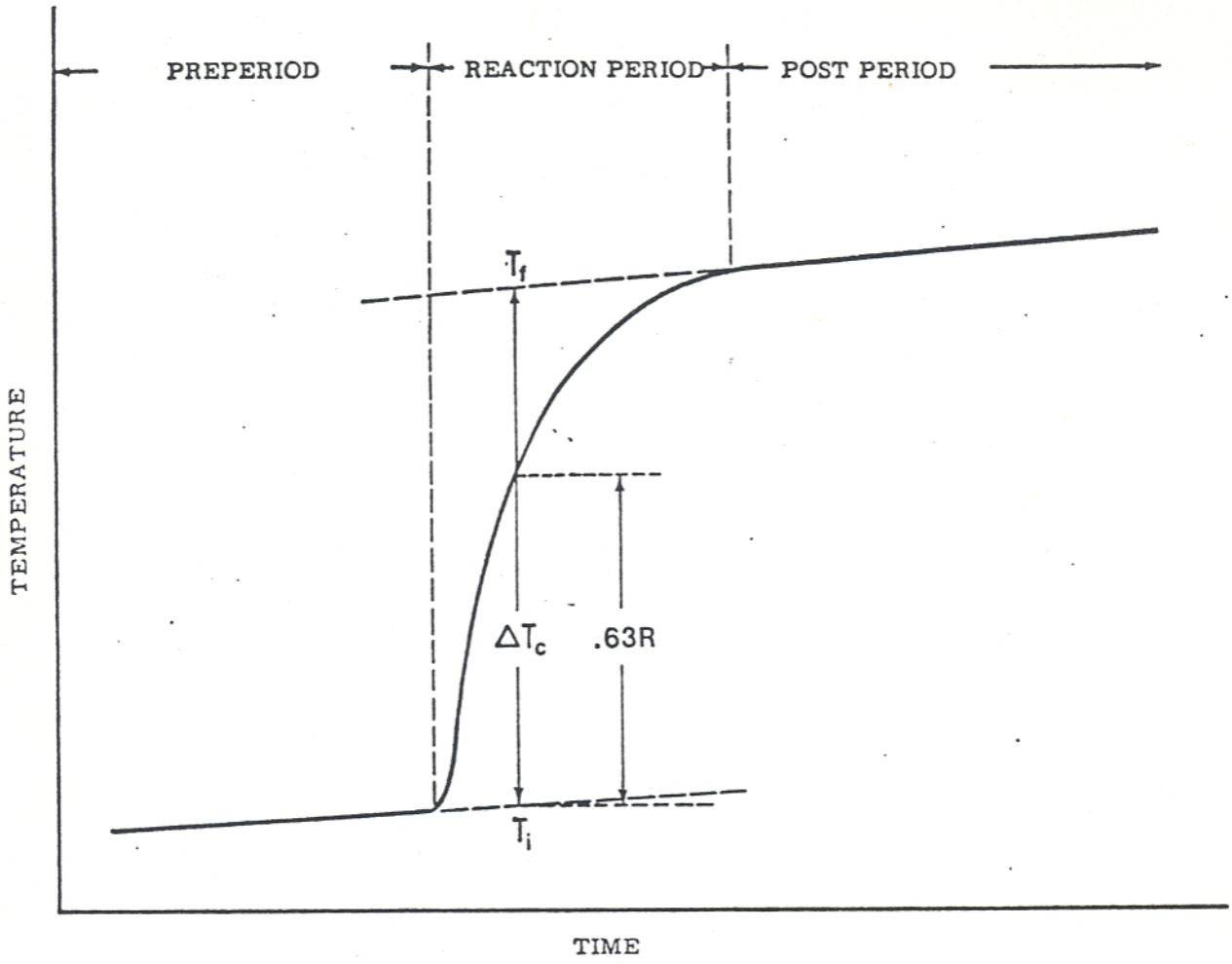

Fig. 5 Graphic Procedure for Determining the Corrected Temperature Rise

CALCULATIONS

The energy change, Q , measured in this calorimeter is calculated by multiplying the net corrected temperature change, ΔT_c , by the energy equivalent, e, of the calorimeter and its contents.

$$Q = (\Delta T_c)(e)$$

If ΔT_c is measured in degrees C and e is expressed in calories per degree C, Q will be reported in calories.

The energy equivalent, e , is determined by a calibration procedure described below under Standardization. The value e is simply the effective heat capacity of the calorimeter.

No factory standardization is currently recorded for this calorimeter. Your W values should be approximately 535 ± 10 Cal/°C.