

Thermometric Titration of Pyridine

Trial	R	S	A	B	C	D
1. Time (min)						
1 Temper. (mV)						
2. Time (min)						
2. Temper. (mV)						

R (buret delivery rate) _____ mL/s M_{HCl} _____ M

Trial 1: n_{tris} _____ moles M_{tris} _____ M
 n_{py} _____ moles M_{py} _____ M

Trial 2: n_{tris} _____ moles M_{tris} _____ M
 n_{py} _____ moles M_{py} _____ M

For Trial 1 (only) :

M_{RS} _____ mV/s M_{A} _____ mV/s

M_{CD} _____ mV/s M_{B} _____ mV/s

T_1 _____ mV

ΔT_{tris} _____ mV

T_2 _____ mV

T_3 _____ mV

ΔT_{py} _____ mV

T_4 _____ mV

S _____ °C/mV (sensitivity of the bridge)

Q_{tris} _____ J $C_{\text{sys,A}}$ _____ J/mV

Q_{py} _____ J $C_{\text{sys,B}}$ _____ J/mV

$\Delta_r H_{\text{py}}$ _____ kJ/mol for Trial 1

$\Delta_r H_{\text{py}}$ _____ kJ/mol for Trial 2