

Thermometric Titration of Cyclodextrin

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

M_{guest} _____ M R (buret delivery rate) _____ mL/min

Trial 1: n_{host} _____ moles M_{host} _____ M

Trial 2: n_{host} _____ moles M_{host} _____ M

For Trial 1 (only) :

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

M_{BC} _____ mVsec M_{DE} _____ mV/sec

T_1 _____ mV

ΔT_{rx} _____ mV

T_2 _____ mV

T_3 _____ mV

ΔT_{el} _____ mV

T_4 _____ mV

V_{av} _____ V I_{av} _____ A $t_{\text{D}} - t_{\text{C}}$ _____ sec

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

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

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

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

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