

III. Data

A. Data for Thermometer Calibration

Correction Factor (°C)	Compounds	Lit mp	Exp mp range (Av)			
			trial 1	trial 2		
	1.) phenylacrylate	42.5	41.1	43.4	42.25	+0.25
	2.) azobenzene	67.5	67.0	68.0	67.5	0.0
	3.) Glutaric acid	97.0	96.3	97.5	96.9	+0.1
	4.) Benzoic acid	121.5	121.2	122.0	121.6	-0.1
	5.) O-iodobenzoic acid	161.0	160.9	162.7	161.8	-0.8
	6.) hippuric acid	189.5	188.1	190.0	189.05	+0.45
	7.) p-hydroxybenzoic	215.5	215.0	218.0	216.5	-1.0
	8.) p-bromobenzoic acid	253.0	256.0	258.0	257	-4.0

B. Data for melting point of Unknown #1

- 1) Melting Point Range (uncorrected) _____ 140.3-142.5°C
- 2) Melting Point Range (corrected) _____
- 3) Melting Point Range ("Av" corrected) _____

C. Data for Melting point of Unknown #2

- 1) melting point range (uncorrected) _____ 53.3-54.5
- 2) melting point range (corrected) _____
3. melting point range ("Av" corrected) _____

4.) Mixed melting point range (corrected)

Compounds

mp range (corrected)

a) diphenylamine

melted at room temperature

b) myristic acid

43.5 - 44.7

c) _____

Unknown # 2 is: _____

IV Conclusion

a)