## **Extraction of Caffeine from Tea**

Data	Extraction of Cantelle Iron Tea	
Mass of tea bag (with leaves, be	fore brewing)	
Mass of empty tea bag (provide	d by instructor)	
Mass of dry 25 mL Erlenmeyer	Flask	
Mass of 25 mL flask with caffein	ne (after evaporation)	
Mass of caffeine		
Appearance of caffeine		
Melting point of caffeine		
	leaves in the bag and record the result in the space a f caffeine in the tea leaves. Show your work below.	bove.
3 Sunnose your tea hag was us	ed to brew a standard American "cun" of tea (which	is actually 6 fluid
	ed to brew a standard American "cup" of tea (which ration of the caffeine in the beverage in units of mg of	•

1. Black tea often contains up to 5% caffeine by mass. How do your results compare with this value? What might account for measuring a percentage lower than this value?						
What does the n	nelting point measu	irement tell you al	oout the purity of t	easure melting point he recovered caffeing fan impure sample.	?	