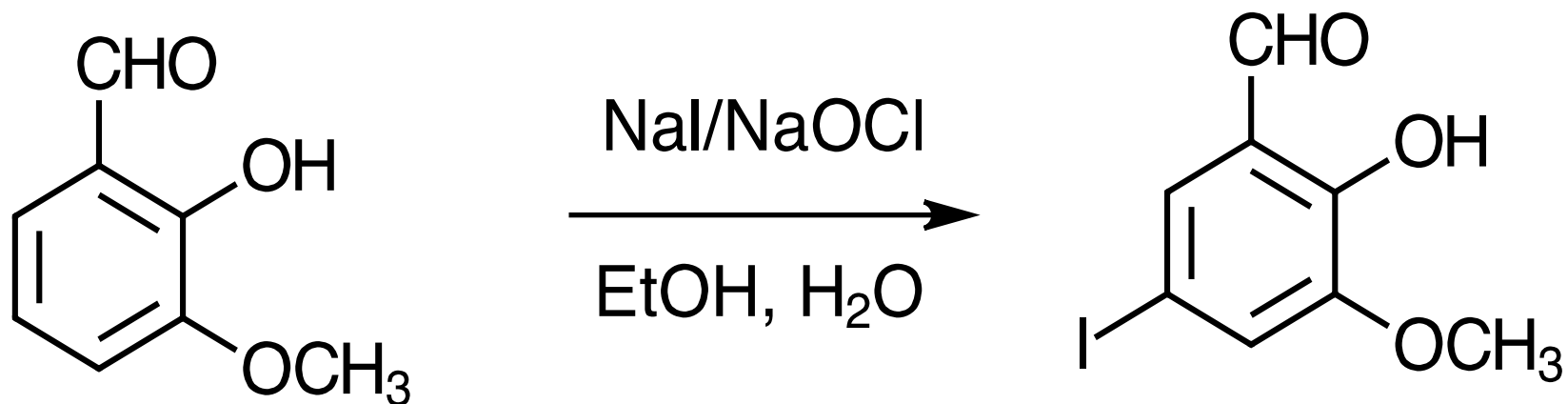


Iodination of Vanillin

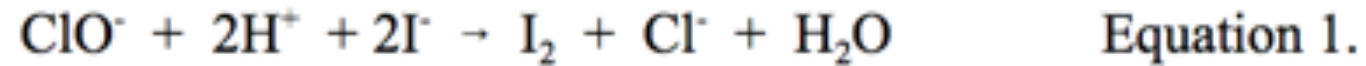
Prelab Lecture

Iodination of o-vanillin



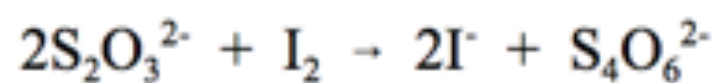
Generation of the Electrophile

Being a strong oxidizing agent, the hypochlorite ion reacts with iodide ion in acid solution to release free iodine as below.

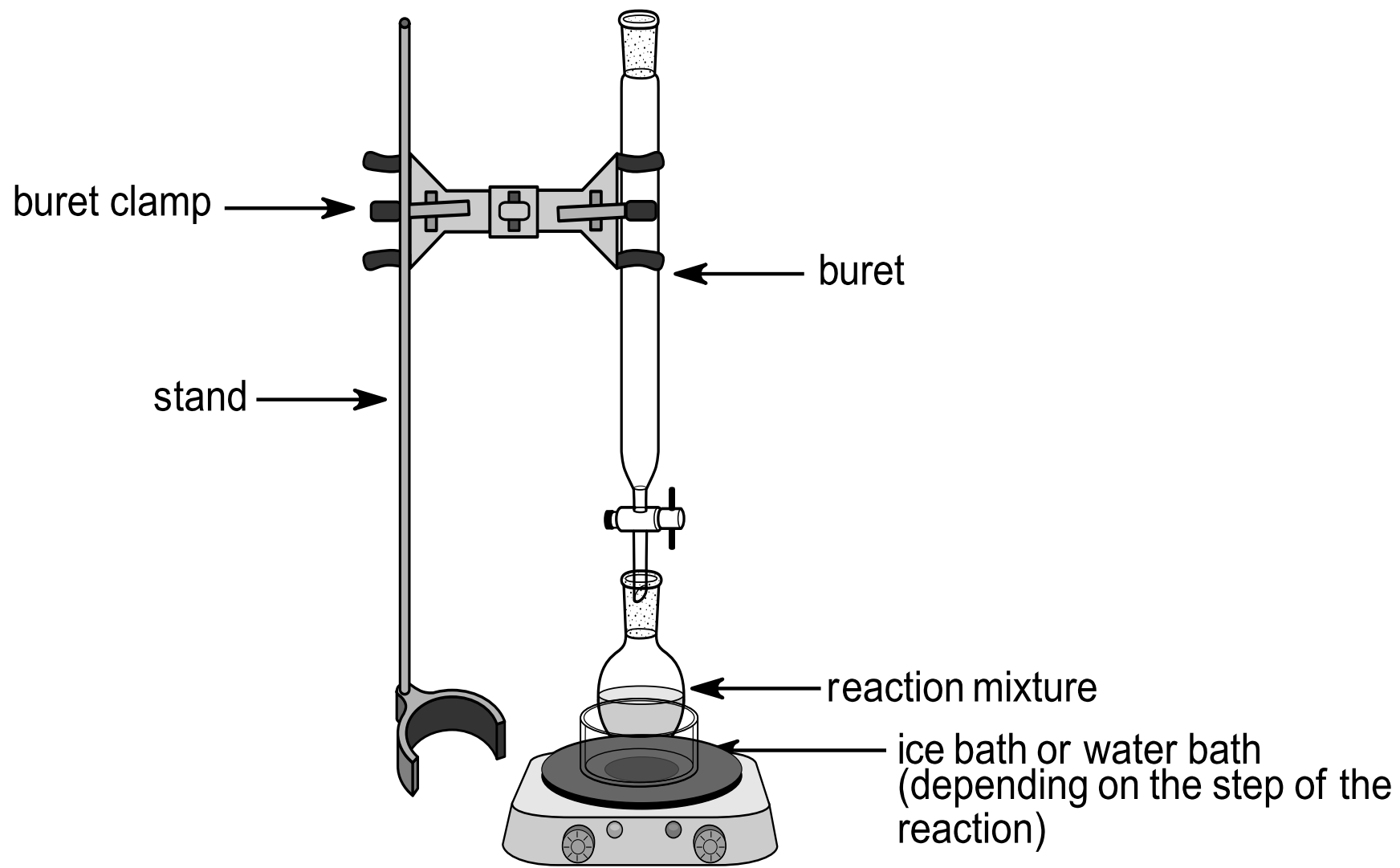


Reaction Mechanism

The iodine released then may be titrated with a standard (known concentration) solution of sodium thiosulphate ($\text{Na}_2\text{S}_2\text{O}_3$).



Equation 2.



	Mass in grams or volume in mL	Molar Mass	Molarity	Density	Moles
Ortho-vanillin	1.0015 g		n/a	n/a	
Sodium iodide	1.1915 g		n/a	n/a	
Ethanol	20 mL		n/a		
Bleach	12 mL			n/a	
Product	1.393 g		n/a		

