

## 2, 3. Melting Points of Pure Urea and Cinnamic Acid

Chemical Name	Melting Point	Location
Trans-cinnamic acid	132-135	Organic Solids
Urea	132.5-133	Organic Solids

*May substitute acetylsalicylic acid / salicylic acid.*

## 4. Standards to Identify Unknowns (from previous lab)

*Choose two samples of approximate melting point of each unknown.*

Compound Name	Melting Point (MP) in Celsius	Location
Benzophenone	49-51	Organic Solids
Maleic Acid	52-54	Organic Solids
4-Nitrotoluene	54-56	Organic Solids
Napthalene	80-82	Organic Solids
Vanillin	81-83	Organic Solids
9-Fluorenone	82-85	Organic Solids
Dibenzylacetone	110	Organic Solids
Acetanilide	113.5-114	Organic Solids
Benzoic Acid	121.5-122	Organic Solids
Urea	132.5-133	Organic Solids
Malonic Acid	134-137	Organic Solids
Acetyl Salicylic Acid	138-140	Organic Solids
Cholesterol	147-149	Organic Solids
Salicylic Acid	158.5-159	Organic Solids
Trans-cinnamic acid	132-135	Organic Solids
Triphenylmethanol	160-163	Organic Solids
Sulfanilamide	165-166	Organic Solids
Tartaric Acid	172-174	Organic Solids
Succinic Acid	184.5-185	Organic Solids
3,5-Dinitrobenzoic acid	205-207	Organic Solids
p-Terphenyl	210-211	Organic Solids
Pthalic Acid	210-211	Organic Solids
Anthracene	214	Organic Solids
Caffeine	234-236	

This lab will require an **ice bath** and **MP capillaries**.