

Determination of Melting Points

TUD Department of Chemistry

You will receive as an unknown one of the compounds in the list below. Determine its melting point range being careful that the temperature is increasing only about 2°/min near the melting point. Find other people in the lab whose compounds have a near identical melting point, and, by using a mixed melting point, determine whether or not you have the same unknowns. Ask for an authentic sample(s) of your suspected unknown and determine by mixed melting point if you are correct

	mp (°C)		mp (°C)
Acetanilide	113-115	t-Cinnamic Acid	133-134
Fluorene	114-116	Benzoin	134-136
Cyanoacetamide	121-122	Benzilic Acid	150-153
Benzoic Acid	121-123	Adipic Acid	152-154
Succinimide	123-125	N-Phenylsuccinimide	155-157
Oxindole	125-127	Salicylic Acid	158-160