

UNIVERSIDAD NACIONAL DE QUILMES - TECNICATURA UNIVERSITARIA EN QUÍMICA
INGLES BÁSICO - PARCIAL

Nombre:..... Legajo:..... Fecha:.....

Nota IMPORTANTE: todas las palabras, frases, ejemplos, etc. que utilice para la resolución de las actividades deberán estar marcadas en el texto y con referencia a la línea en que aparecen.

Whether you are carrying out miniscale or microscale experiments, **you** need to accurately measure both solid and liquid reagents as well as the temperature in reaction and purification procedures. Also, a
3 number of temperature measurements must be made while carrying out chemical reactions. For example, **it** may be necessary to maintain a constant temperature with a cooling or heating bath, to monitor the temperature of a reaction mixture, to determine the boiling point when carrying out a
6 distillation, or to determine the melting point of a reaction product. There are numerous types of thermometers available, **some** suitable for a variety of tasks and **others** designed for specific purposes. Until recently, mercury thermometers were the most common type of thermometer found in chemistry
9 laboratories. However, concern for the environment, the toxicity of mercury, and the hazards of cleaning up a mercury spill from a broken thermometer have caused a number of states to prohibit the use of
mercury thermometers in schools, colleges, and universities. **They** have been replaced by other types of
12 temperature measuring devices, such as non mercury thermometers, metal probe thermometers, and digital thermometers that can be used with different types of temperature probes. Non mercury
thermometers filled with alcohol or other organic liquids are now available; **some of them** can measure
15 to 300°C. Like mercury thermometers, non mercury thermometers also need to be calibrated before using **them** for any temperature measurement where accuracy is essential, for example, when determining a melting or boiling point. Many types of temperature probes are available for use with
18 digital thermometers. The use of a stainless steel or a Teflon coated metal temperature probe with a
digital thermometer is an alternative for a mercury thermometer in a distillation. However, uncoated

metal probes can react with hot organic vapors, particularly if **they** can be oxidized easily or are acidic or
21 corrosive; the use of an uncoated metal probe is not recommended for distillations of such compounds.
The length of a temperature probe that is positioned below the side arm of a distilling head needs to be
determined experimentally by a series of distillations using pure compounds. Consult your instructor
24 about the correct position within the distilling head for the type of probe used in your laboratory. The
accuracy of a temperature determination is no better than the accuracy of the thermometer. You cannot
assume that a thermometer has been accurately calibrated. Although frequently **this** is the case, **it** is not
27 always true. Thermometers may give higher or lower temperature readings of 2°–3° or more. A
thermometer can be calibrated with a series of pure compounds whose melting points are relatively easy
to reproduce. The observed melting point corrections for the standard compounds in Table 5.1 can be
30 plotted to determine the necessary temperature corrections.

- 1) Lea el texto e identifique CINCO frases sustantivas centrales. Escríbalas en castellano (10p)
- 2) Redacte en castellano coherente lo que entiende de DOS de las oraciones subrayadas. (20p)
- 3) Marque a lo largo del texto UN adjetivo, UN comparativo y UN superlativo si hubiera. (9p)
- 4) Identifique UN ejemplo de cada tiempo verbal (presente/pasado/futuro) si hubiera. (10p)
- 5) Identifique en el texto UNA oración en voz pasiva y escríbala en castellano. Explíquela. (10p)
- 6) Indique las referencias de TRES de las frases o expresiones en negrita. (9p)
- 7) Elija TRES terminaciones –ing del texto y escriba como las leería en castellano o su categoría (adjetivo, sustantivo, verbo) en la frase en la que se encuentran. (9p)
- 8) Elija TRES terminaciones –ed del texto y escriba en castellano como las leería en la frase en la que se encuentran. (12p)
- 9) Identifique UN ejemplo de modo imperativo si lo hubiere y escríbalo en castellano coherente. (6p)
- 10) Identifique UNA falsa transparencia e indique a qué se parece; o UNA terminación indicando su función en la palabra en que aparece. (5p)

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