Exercise 26

Classify the six underlined properties in the following paragraph as chemical or physical:

Fluorine is a pale yellow gas that <u>reacts with most substances</u>. The free element <u>melts at -220 °C</u> and <u>boils at -188 °C</u>. Finely divided <u>metals burn in fluorine</u> with a bright flame. Nineteen grams of fluorine will react with 1.0 gram of hydrogen.

Solution

gas - physical

reacts with most substances - chemical

melts at $-220~^{\circ}\text{C}$ - physical

boils at -188 °C - physical

metals burn in fluorine - chemical

Nineteen grams of fluorine will react with 1.0 gram of hydrogen - chemical