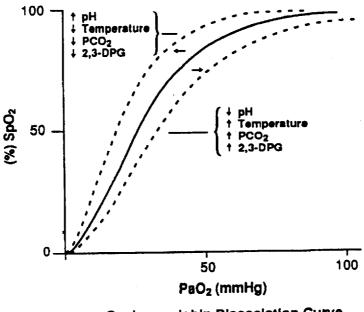
## Measured versus Calculated Saturation

When Sp0<sub>2</sub> is calculated from a blood gas measurement of the partial pressure of arterial oxygen (Pa0<sub>2</sub>), the calculated value may differ from the monitor's Sp0<sub>2</sub> measurement. This is because the calculated Sp0<sub>2</sub> may not have been corrected for the effects of variables that shift the relationship between Pa0<sub>2</sub> and Sp0<sub>2</sub> (see Figure below): temperature, pH, the partial pressure of carbon dioxide (PaCO<sub>2</sub>), and the concentrations of 2,3-DPG and fetal hemoglobin.



Oxyhemoglobin Dissociation Curve