

# CO<sub>2</sub> and H<sub>2</sub>S Calculations

in DownHole SAT®

## If You Enter Both $p\text{CO}_2$ and Values For Aqueous $\text{CO}_2$

DownHole SAT assumes that  $\text{CO}_2$  gas phase measurements are more accurate than aqueous measurements. It will calculate the dissolved  $\text{CO}_2$  from the gas phase values input in most cases.

You can force the program to use your input values by selecting **cor.  $\text{HCO}_3$**  and **cor.  $\text{CO}_3$**  for the analytical units for alkalinity. The program will then assume that you have corrected for non-carbonate alkalinity and that your values are correct.

The program will calculate phase distributions of  $\text{CO}_2$  up to the bubble point.

## If You Enter Both $p\text{H}_2\text{S}$ and Values For Aqueous $\text{H}_2\text{S}$

DownHole SAT assumes that  $\text{H}_2\text{S}$  gas phase measurements are more accurate than aqueous measurements. It will calculate the dissolved  $\text{H}_2\text{S}$  from the gas phase values input in most cases.

The program will calculate phase distributions of  $\text{H}_2\text{S}$  up to the bubble point.

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