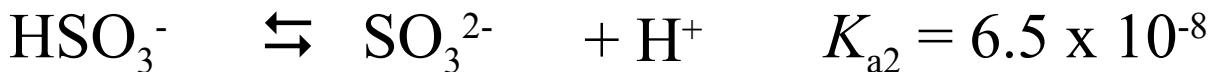


Polyprotic Acid



2 equivalents of base

0.10 M H₂SO₃

0.1 M NaOH

half-way point $\text{pH} = \text{p}K_a$

$$-\log 1.4 \times 10^{-2} = 1.85$$

$$-\log 6.5 \times 10^{-8} = 7.19$$

1st equivalence point

$$\frac{1.84 + 7.19}{2} = 4.52$$

2nd equivalence point

conjugate base, SO₃²⁻

buffering regions

