

# HEPES buffer

---

## HEPES

4-(2-Hydroxyethyl)-1-piperazineethanesulfonic acid

C<sub>8</sub>H<sub>18</sub>N<sub>2</sub>O<sub>4</sub>S

Molecular weight = 238.30

## HEPES buffer

20mM HEPES buffer, PH=7.3

$$x / (238.30 * 0.1) * 10^3 = 20$$

$$x = 0.4766g$$

100ml H<sub>2</sub>O

1mol/L NaOH

$$x' / (40 * 0.1) = 1.0$$

$$x' = 4g$$

2g : 50ml H<sub>2</sub>O, 1g, 25ml H<sub>2</sub>O