

## Refractive Index

Water 20°	1.333
Glycerin	1.4729
Polycarbonate	1.59
Glass	1.518 [1.5-1.9]
Diamond	2.419
Nucleus	1.3-1.4 [usually below cytoplasm]
Cytoplasm	1.35-1.38
Mitochondria	1.4-1.42
Lipids	1.48
Proteins	1.50-1.58

## Refractive index of macromolecules solutions:

$$n = n_w + \alpha C [\text{gr}/100\text{ml}] \quad [\alpha \text{ also called } \partial n / \partial c]$$

$$\text{Proteins} \quad \alpha = 0.0018$$

$$\text{Sodium} \quad \alpha = 0.0016$$