## Welcame ta 3.091

## Lecture 30

November 24, 2004

TABIE BIO. 1 The 20 Standard Amino Acids





Polarized

$\alpha$
$\alpha$ Oconc. $q$ (2) path lengith Tireuge same


## extreme kinetics:

## the Halifax Explosion

* Thursday, December 6, 1917
* Imo, Belgian, relief ship
* Mont Blanc, French, supply ship:

35 tons benzol
300 rounds ammunition 10 tons gun cotton 2,300 tons picric acid (used in explosives)


* at 8:45 a.m. Imo hits Mont Blanc, missing TNT, striking picric acid stored directly beneath drums of benzol on deck, sparks

