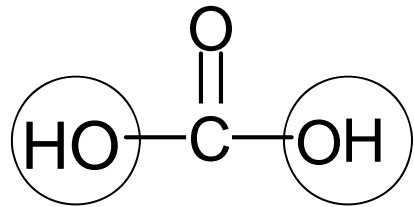
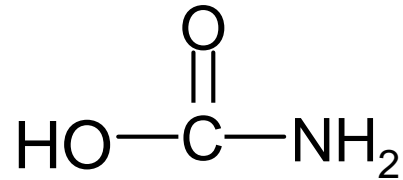


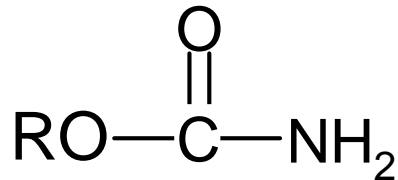
## 1.14. Kohlensäurederivate



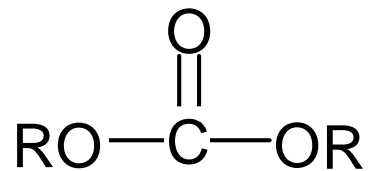
Oxidationsstufe + IV



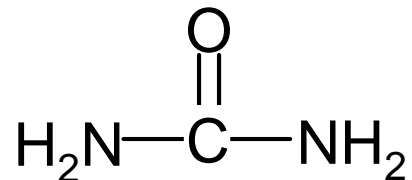
Carbaminsäure  
(Monoamid)  
(unbeständig)



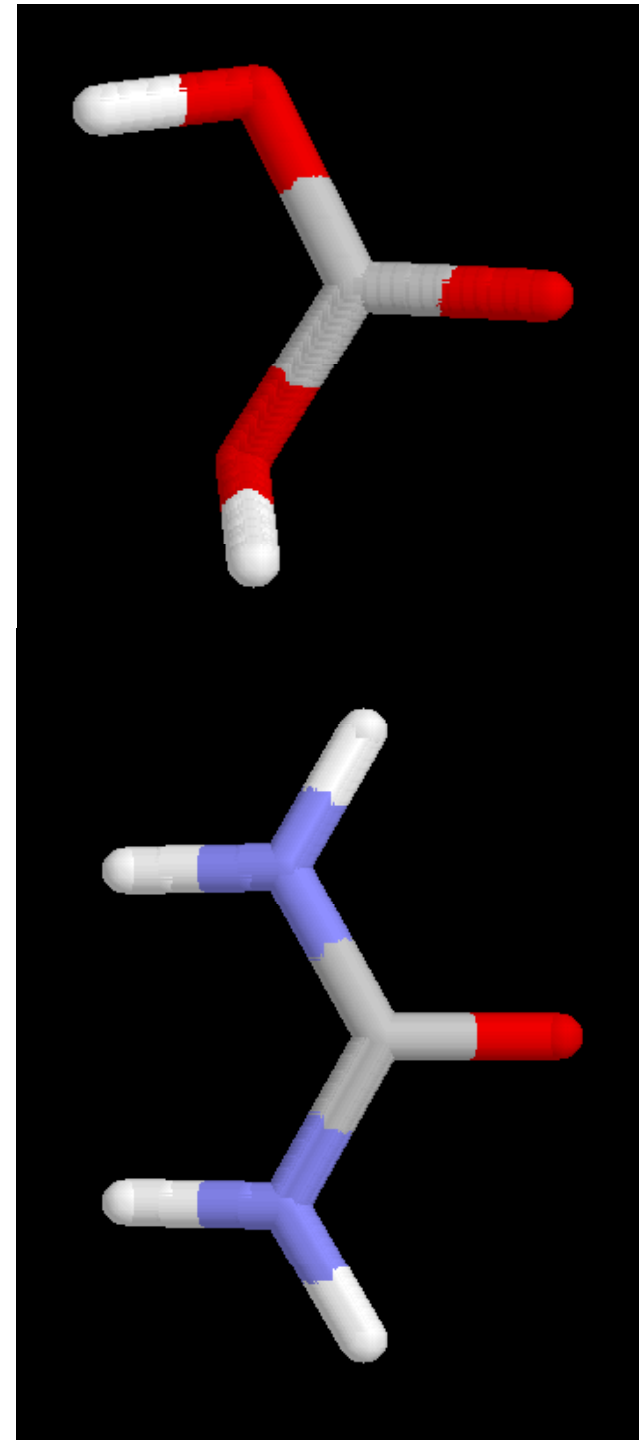
Carbaminsäureester



Kohlensäureester

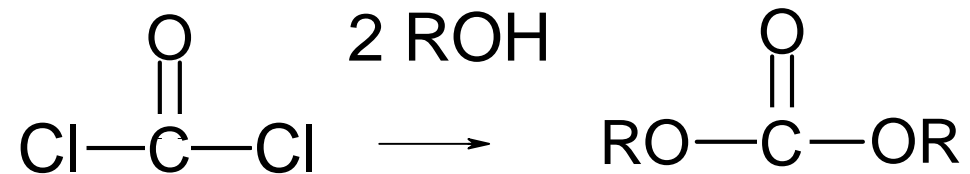


Harnstoff (Diamid)  
28-30 g tägl.gebildet

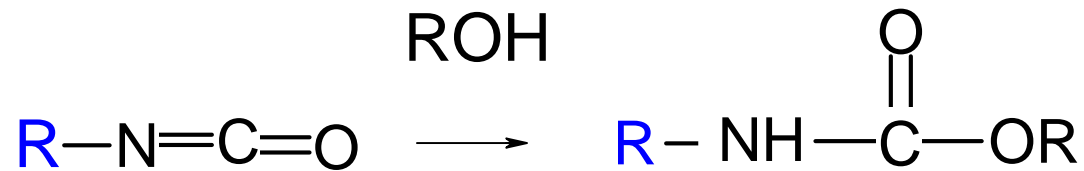


## Herstellung

Aus Phosgen (Säurechlorid der Kohlensäure))

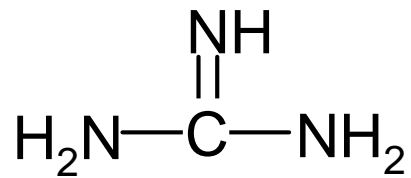


Kunststoffe (Polyaddition von Aminen oder Alkoholen an Isocyanate - POLYURETHANE)

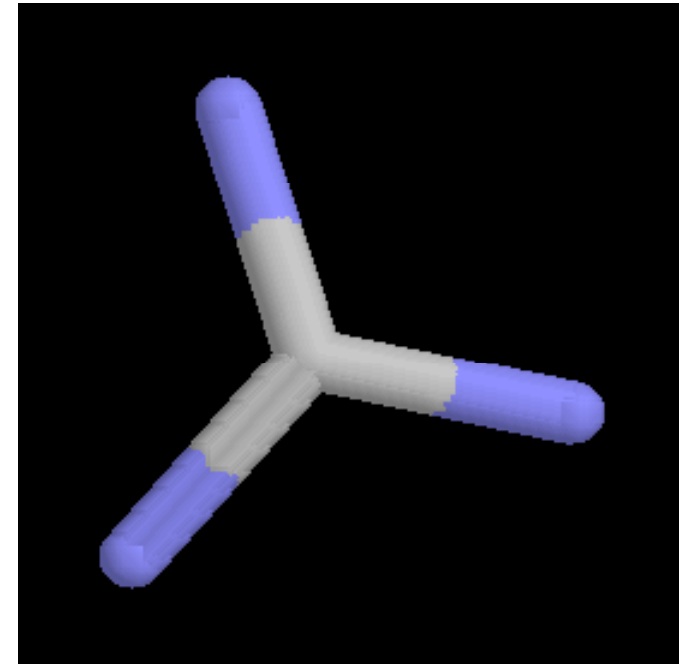


Isocyanat

Carbamat  
Urethan



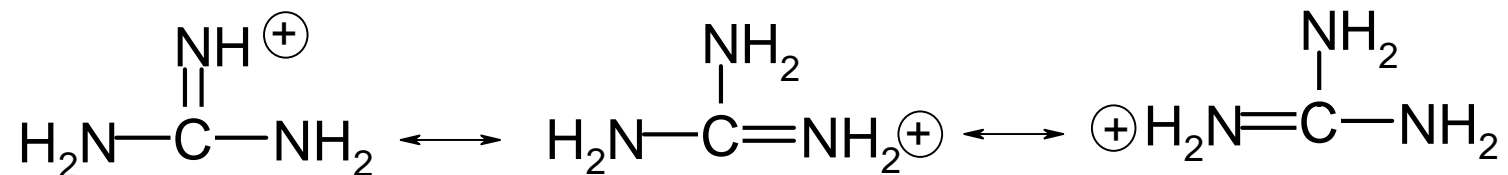
Guanidin



Stärkste organische Base

$\text{pK}_B$ : 0.3

Kation durch Mesomerie stabilisiert:



Bestandteil der basischen Aminosäure Arginin