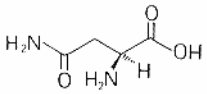
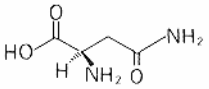
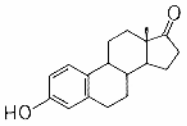
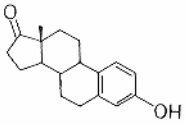
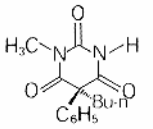
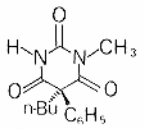
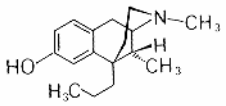
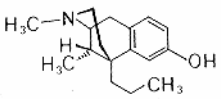
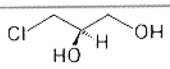
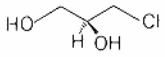
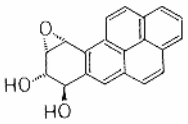
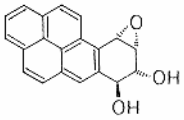
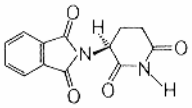
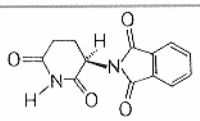
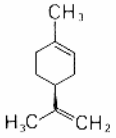
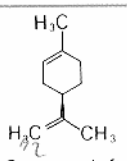
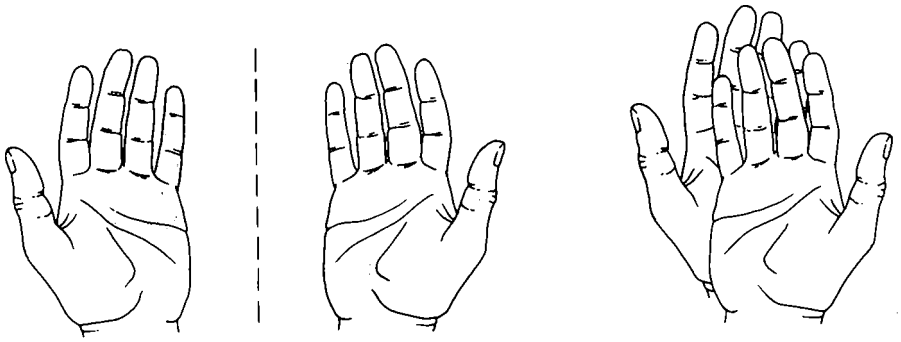
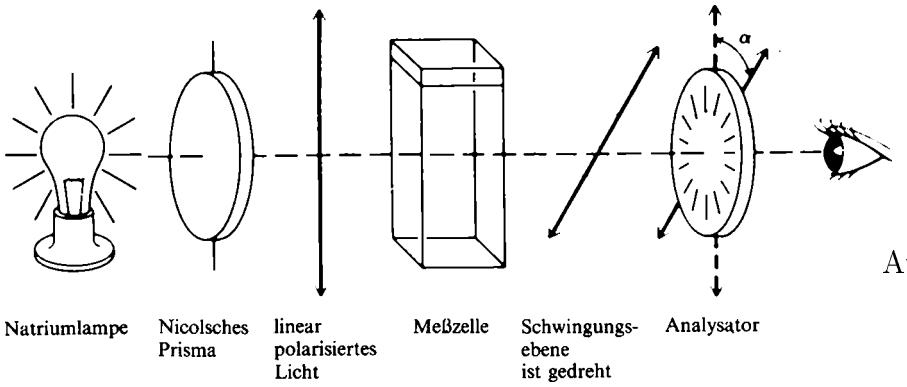
Chiralität I

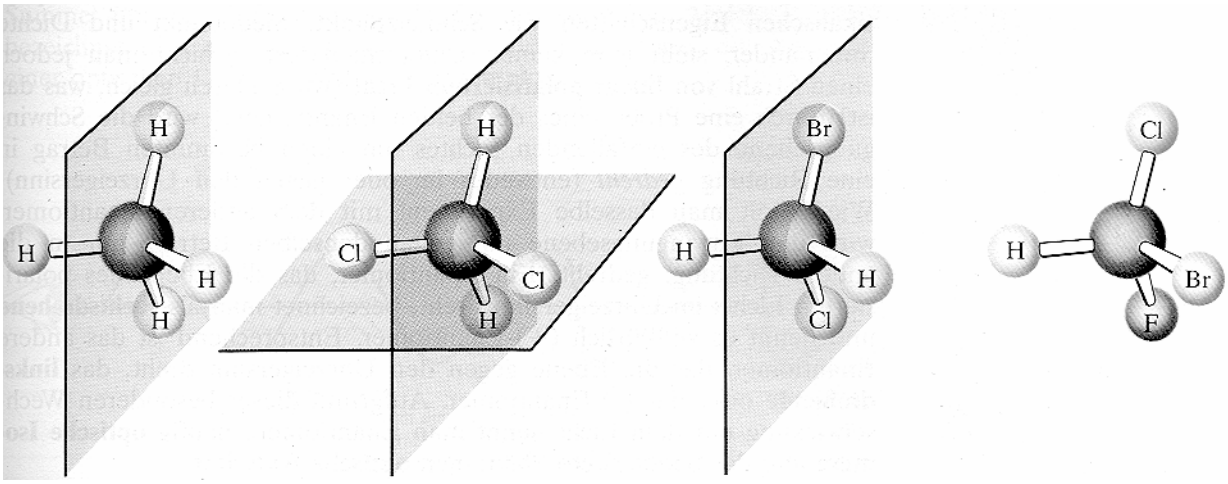
(S)	 bitter	Asparagin	 süß	(R)
(+)	 östrogene Hormonwirkung	Östron	 keine	(−)
(R)	 narkotisch	Barbitursäure-Derivate	 Krampfanfall auslösend	(S)
(−)	 stark analgetisch nicht süchtig machend	Benzomorphan-Derivate	 schwach analgetisch süchtigmachend	(+)
(R)	 toxisch	Chloropropandiol	 Antifertilitäts-Wirkung	(S)
(+)	 stark carcinogen	Benz[a]pyren-Metabolite	 nicht carcinogen	(−)
(S)	 stark teratogen	Contergan	 keine Mißbildungen	(R)
(S)	 Zitronenduft	Limonen	 Orangenduft	(R)

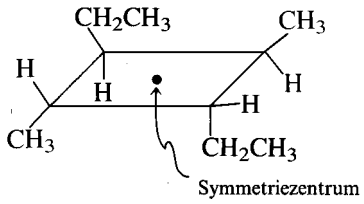
Chiralität II



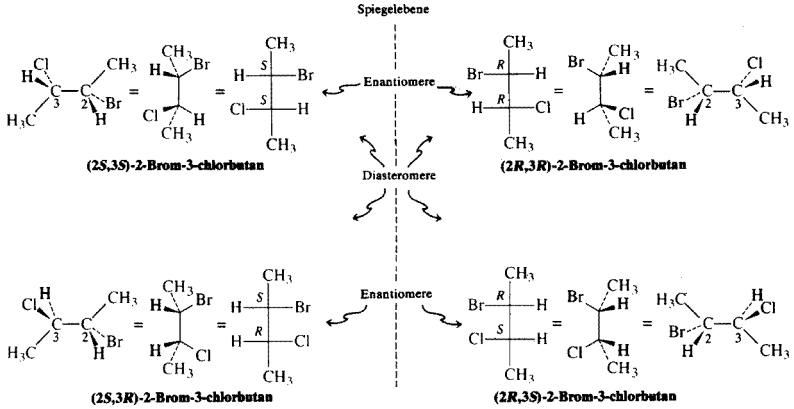


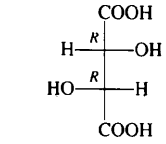
Aufbau eines Polarimeters



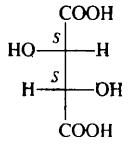


Chiralität III

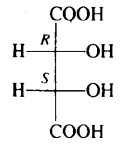




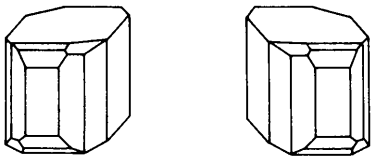
(+)-Weinsäure
$[\alpha]_D^{20\,°C} = +12.0$
Smp. 168–170 °C
Dichte d = 1.7598 g/mL



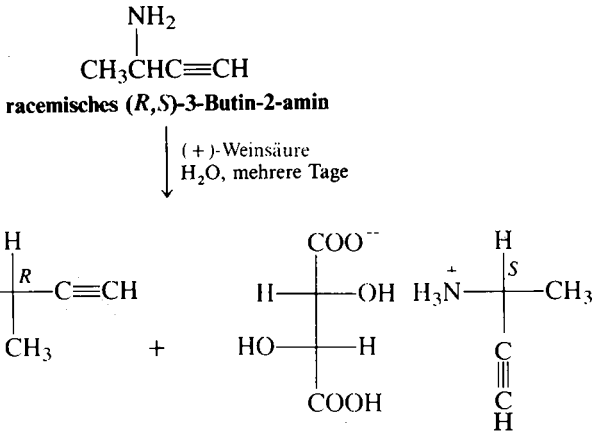
(−)-Weinsäure
$[\alpha]_D^{20\,°C} = -12.0$
Smp. 168 – 170 °C
d = 1.7598 g/mL



***meso*-Weinsäure**
$[\alpha]_D^{20\,°C} = 0$
Smp. 146–148 °C
d = 1.6666 g/mL

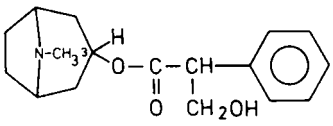


Tartratkristalle

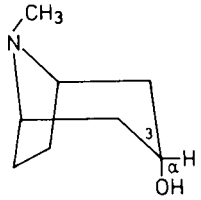


Heterocyclen I

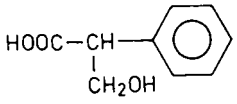
Ringgröße	ungesättigt	gesättigt
3-Ring	-iren, -irin (N)	-iran, -iridin (N)
4-Ring	-et	-etan, -etidin (N)
5-Ring	-ol	-olan, -olidin (N)
6-Ring	-in, inin (B, P, X)	-an, -inan (N, B, P, X)
7-Ring	-epin	-epan



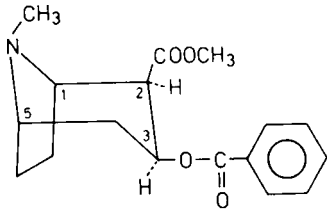
Atropin



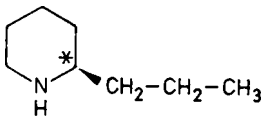
Tropin
(Tropan-3α-ol)



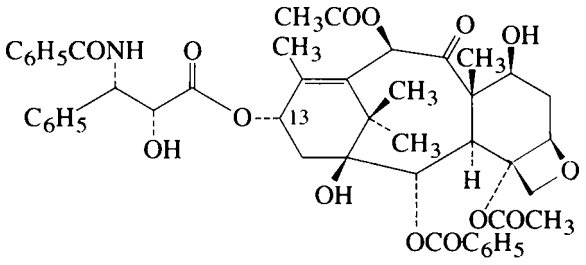
Tropasäure (α-Phenyl-β-hydroxy-propionsäure)



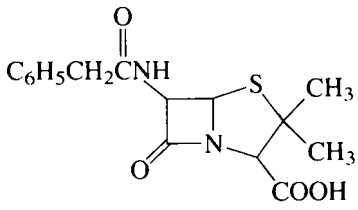
(2*R*.3*S*)-(−)-Cocain



Coniin

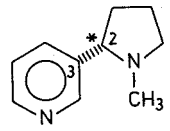


Taxol

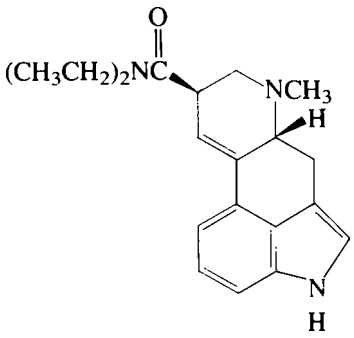


Penicillin G

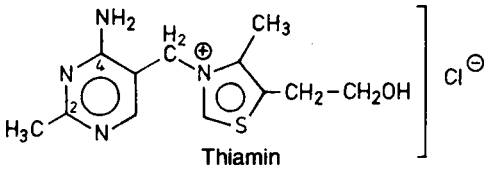
Heterocyclen II



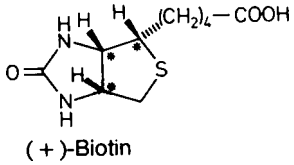
Nicotin = 3-[N-Methyl-2-tetrahydropyrrolyl]-pyridin



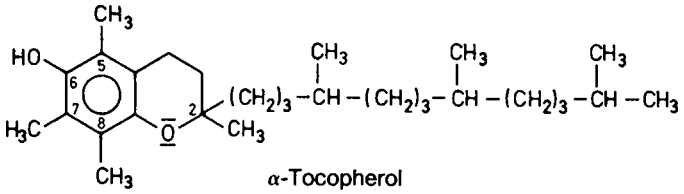
Lysergsäurediethylamid (LSD)



Thiamin

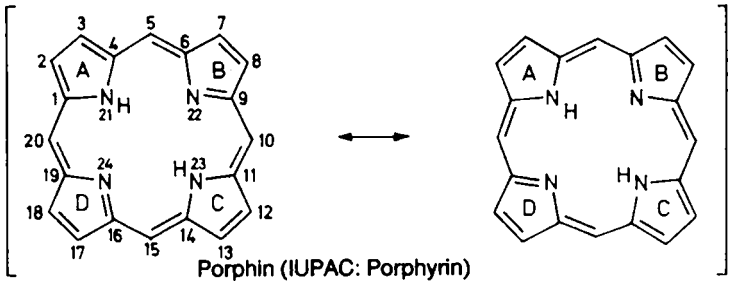


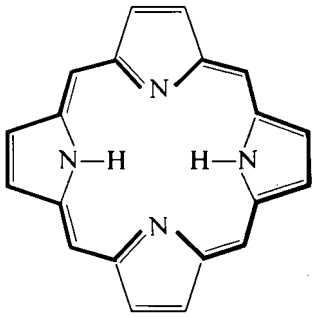
(+)-Biotin



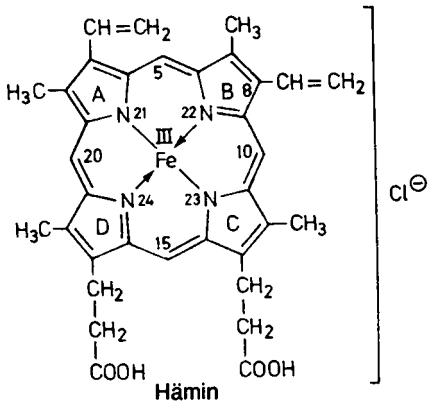
α-Tocopherol

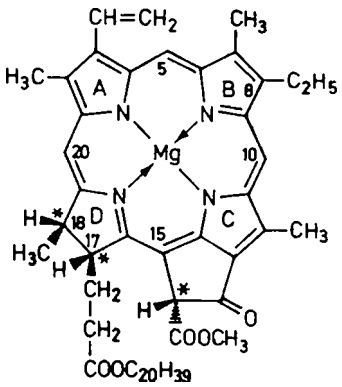
Heterocyclen III



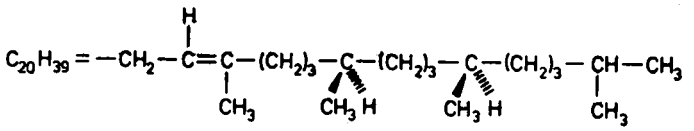


Porphin



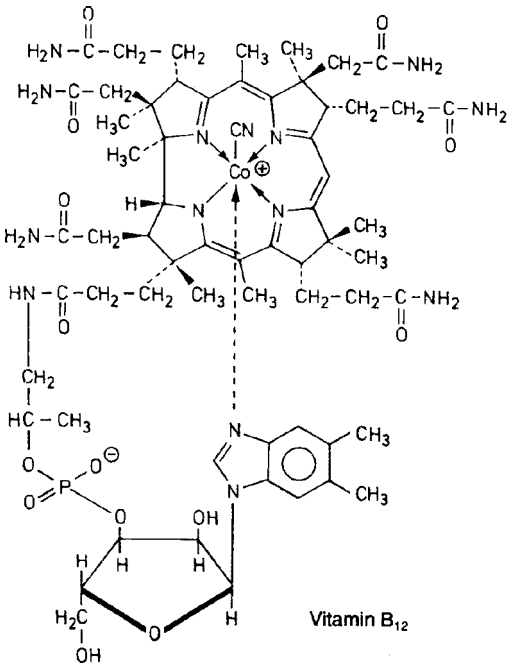


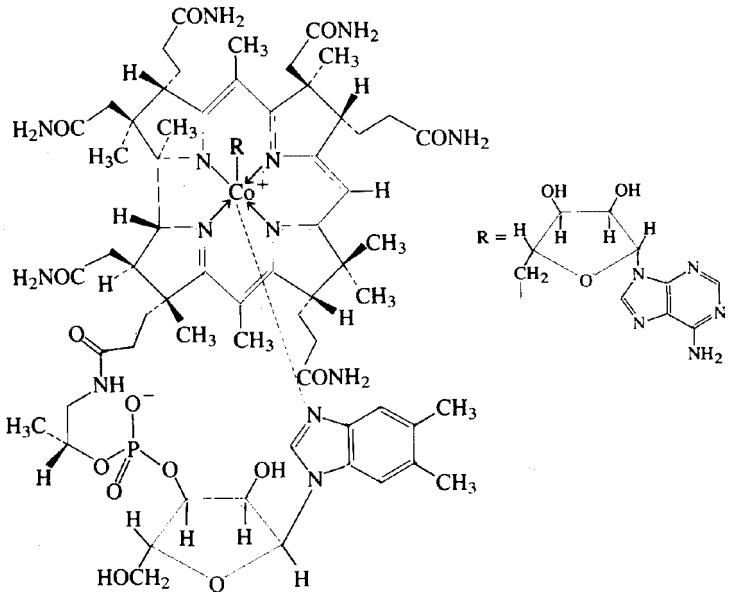
Chlorophyll



Phytylrest ((2*E*)-(7*R*, 11*R*)-3,7,11,15-Tetramethyl-2-hexadecenyl)

Heterocyclen IV





Vitamin B_{12}