Tabel 6. Udvalgte cykliske stamhydrider med ét heteroatom [1)]

oxiran
ethylenoxid[2)]
oxacyclopropan[3)]

oxiren
oxacyclopropen[3)]

thiiran
thiacyclopropan[3)]

thiiren
thiacyclopropen[3)]

aziridin
azacyclopropan[3)]

1*H*-azirin
1-azacycloprop-2-en[3)]

2*H*-azirin[4)]

=

1-azacycloprop-1-en[3)]

oxetan

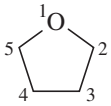
oxet

thietan

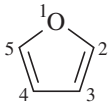
thiet

azetidin

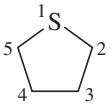
azet
azacyclo⊂
butadien[3)]



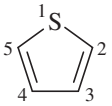
oxolan
tetrahydrofuran[5)]



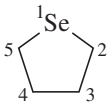
furan
oxol



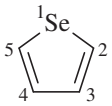
thiolan
tetrahydrothiophen[5)]



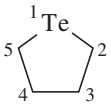
thiophen[6)]



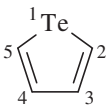
selenolan
selenacyclopentan[3)]



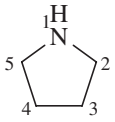
selenophen[6)]



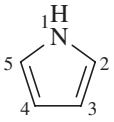
tellurolan
telluracyclopentan[3)]



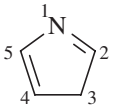
tellurophen[6)]



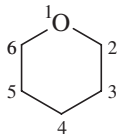
pyrrolidin
azolidin



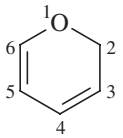
pyrrol[7)8)]



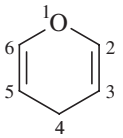
3*H*-pyrrol[7)8)]



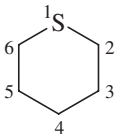
oxan
tetrahydropyran[5)]



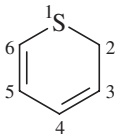
2*H*-pyran[8)]



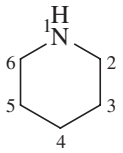
4*H*-pyran[8)]



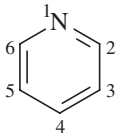
thian
tetrahydro⊂
thiopyran[5)]



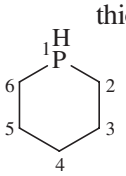
2*H*-thiopyran[7)]
2*H*-thiin[7)]



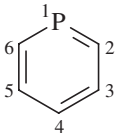
piperidin
azinan



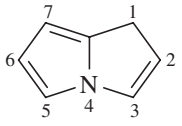
pyridin[9)]



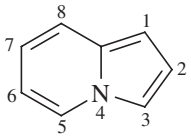
phosphinan



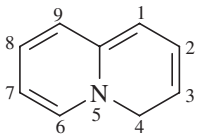
phosphinin
phosphabenzen[3)]



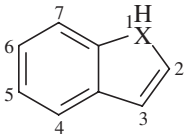
1*H*-pyrrolizin[7)]



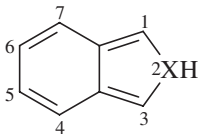
indolizin



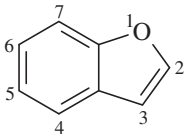
4*H*-quinolizin[7)]



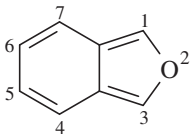
X = N: 1*H*-indol[7)10)]
X = P: 1*H*-phosphindol[7)]
X = As: 1*H*-arsindol[7)]



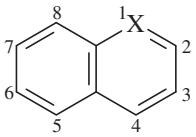
X = N: 2*H*-isoindol[7)11)]
X = P: 2*H*-isophosphindol[7)]
X = As: 2*H*-isoarsindol[7)]



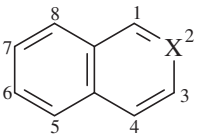
benzofuran[5)]



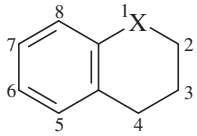
isobenzofuran[5)]



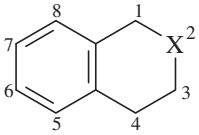
X = N: quinolin
X = P: phosphinolin
X = As: arsinolin



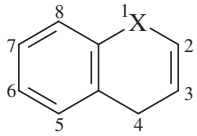
X = N: isoquinolin
X = P: isophosphinolin
X = As: isoarsinolin



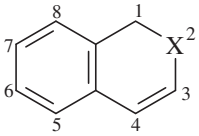
X = O: chroman
X = S: thiochroman
X = Se: selenochroman
X = Te: tellurochroman



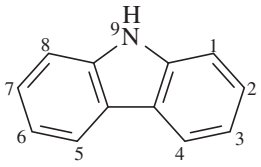
X = O: isochroman
X = S: isothiochroman
X = Se: isoselenochroman
X = Te: isotellurochroman



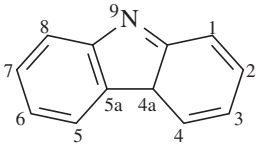
X = O: 4*H*-chromen[7)]
X = S: 4*H*-thiochromen[7)]
X = Se: 4*H*-selenochromen[7)]
X = Te: 4*H*-tellurochromen[7)]



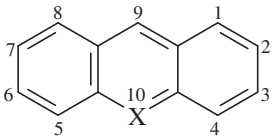
X = O: 1*H*-isochromen[7)]
X = S: 1*H*-isothiochromen[7)]
X = Se: 1*H*-isoselenochromen[7)]
X = Te: 1*H*-isotellurochromen[7)]



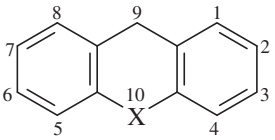
9*H*-carbazol[7)12)]



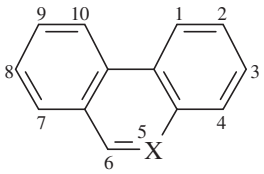
4a*H*-carbazol[7)12)]



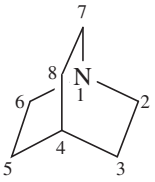
X = N: acridin[12)]
X = P: acridophosphin[12)]
X = As: acridarsin[12)]



X = O: 9*H*-xanthen[7)12)]
X = S: 9*H*-thioxanthen[7)12)]
X = Se: 9*H*-selenoxanthen[7)12)]
X = Te: 9*H*-telluroxanthen[7)12)]



X = N: phenanthridin
X = P: phosphanthridin
X = As: arsanthridin



quinuclidin
1-azabicyclo[2.2.2]octan
[methantriyltris(ethylen)]azan[13)]

1) De anførte navne er stamnavne (🌐 2.3), hvis ikke andet er bemærket. Se også tabel 14D: morphinan.
2) IUPAC er ikke særlig klar mht. dette navn. Vi har valgt at tillade det, da det er meget brugt og ikke kan misforstås. Det er dog ikke noget stamnavn.
3) Disse »a-navne« (🌐 1.3.8.3) er nok ikke de mest benyttede for disse systemer, men er medtaget for at illustrere denne nomenklaturtype.
4) Bemærk, at nummereringen, der følger af reglerne i 🌐 2.8.3, her er forskellig for de to navne; Hantzsch-Widman-navnet (jf. 🌐 2.3.4.2) vil nok være det foretrukne.
5) Disse navne opfattes som helheder og kan bruges som stamnavne. Siden 1998 har IUPAC dog brugt 1-benzofuran (ikke benzo[*b*]furan) for benzofuran og 2-benzofuran (ikke benzo[*c*]furan) for isobenzofuran [8].
6) I disse tilfælde er Hantzsch-Widman-navnet ikke anført, da det falder sammen med stofklassebetegnelserne thiol, selenol, tellurol; på engelsk undgås dette sammenfald ved, at man lader H-W-navnene ende på 'e' (thiole osv.).
7) Hvor samme navn dækker over flere tautomerer, er kun vist én eller to tautomerer og de tilhørende navne med indiceret hydrogen. 'Pyrrol' uden indicering af H kan bruges om 1*H*-pyrrol.
8) Hantzsch-Widman-navnene azol (for pyrrol) og oxin (for pyran) frarådes, da de også har været brugt om hhv. 4-aminophenol og quinolin-8-ol.
9) Hantzsch-Widman-navnet azin må ikke bruges, da azin er stofklassebetegnelse for forbindelser indeholdende gruppen =N−N= (se 🌐 3.3.2.6).
10) Indolin er 2,3-dihydro-1*H*-indol.
11) Isoindolin er 2,3-dihydro-1*H*-isoindol.
12) Ukonventionel nummerering. For phenanthridins vedkommende er nummeringen som for phenanthrolin (tabel 7), men forskellig fra nummereringen af det tilgrundliggende carbocykliske system, phenanthren (tabel 5). For acridophosphin og acridarsin har IUPAC i 1998 ændret nummereringen, rimeligvis så heteroatomet får lavest mulige nummer, dvs. 5.
13) Ikke stamnavn.