

用于主-客体化学的大环化合物

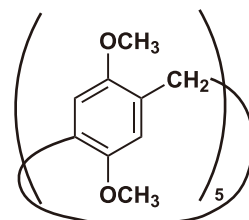
主体化合物识别并结合特定的分子、原子或离子（客体），从而形成复合物。在这些复合物的形成过程中，由于静电作用，疏水作用，氢键等各种作用力而使其具有高选择性。分子传感器，合成酶，分离体系等都利用了主体化合物对客体的高选择性。目前，具有更高选择性的新型主体化合物的合成正在开发中。

柱芳烃

D4471 是由T.Ogoshi等人开发出的一种环形分子，与杯芳烃不同，其具有对称的柱状结构。

D4471 内部空腔(直径约0.5nm)是由苯环封闭的富电子空间，因此可以选择性的捕获电子受体分子和线性正构烷烃。

T. Ogoshi, *J. Incl. Phenom. Macrocyc. Chem.* **2012**, 72, 247.
T. Ogoshi, T. Yamagishi, *Bull. Chem. Soc. Jpn.* **2013**, 86, 312.



Dimethoxypillar[5]arene

100mg / 1g

[D4471]

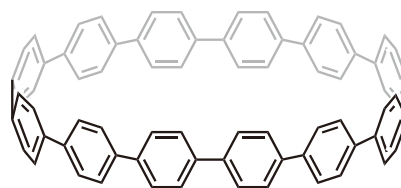
环对苯撑



[5]Cycloparaphenylene

20mg

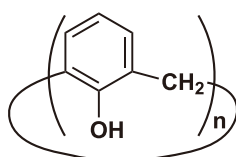
[C2931]



[12]Cycloparaphenylene

10mg

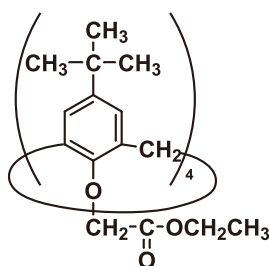
[C2449]



n=4 Calix[4]arene 100mg / 1g **[C1455]**

n=6 Calix[6]arene 1g / 5g **[H0713]**

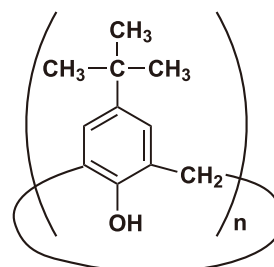
n=8 Calix[8]arene 1g / 5g **[C1435]**



**Tetraethyl
4-tert-Butylcalix[4]arene-
O,O',O'',O'''-tetraacetate**

200mg / 1g

[T2563]



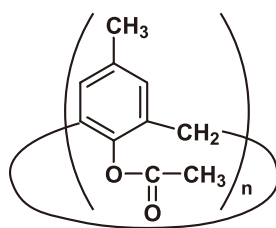
n=4 4-tert-Butylcalix[4]arene

1g / 5g / 25g **[B1809]**

n=5 4-tert-Butylcalix[5]arene 100mg **[B2221]**

n=6 4-tert-Butylcalix[6]arene 5g / 25g **[H0714]**

n=8 4-tert-Butylcalix[8]arene 5g / 25g **[B1750]**

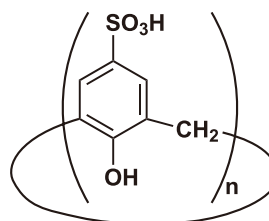


n = 6,8

4-Methyl-1-acetoxycalixarene [mixture of [6] and [8]]

100mg / 1g

[H0889]



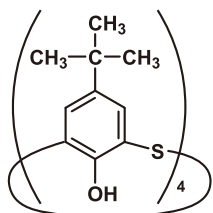
· xH₂O

n=4 4-Sulfocalix[4]arene Hydrate 1g / 5g **[S0469]**

n=6 4-Sulfocalix[6]arene Hydrate 1g / 5g **[S0470]**

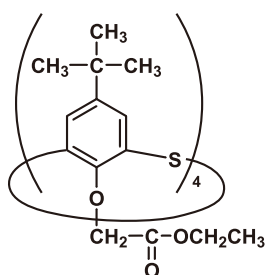
n=8 4-Sulfocalix[8]arene Hydrate 1g / 5g **[S0471]**

硫杂杯芳烃



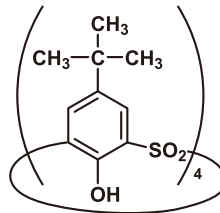
4-tert-Butylthiacalix[4]arene

1g / 5g
[B2296]



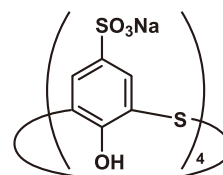
4-tert-Butyl-1-(ethoxycarbonylmethoxy)thiacalix[4]arene

1g / 5g
[B2310]



4-tert-Butylsulfonylcalix[4]arene

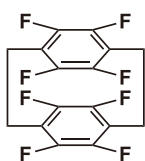
1g / 5g
[B2312]



4-Sulfothiacalix[4]arene Sodium Salt

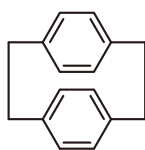
1g / 5g
[S0477]

环芬



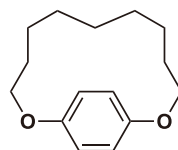
4,5,7,8,12,13,15,16-Octafluoro [2.2]paracyclophane

1g / 5g
[O0455]



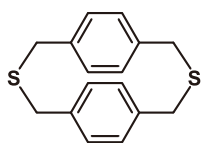
[2.2]Paracyclophane

1g
[P1165]



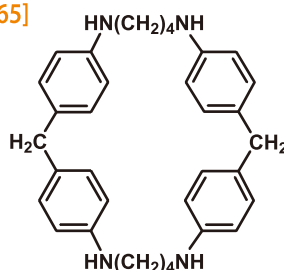
1,11-Dioxa[11]paracyclophane

250mg / 1g
[D4298]



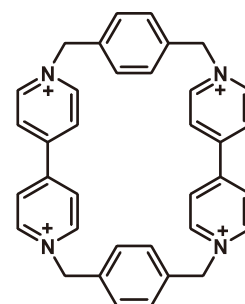
2,11-Dithia[3.3]paracyclophane

100mg / 500mg
[D2210]



1,6,20,25-Tetraaza[6.1.6.1]paracyclophane

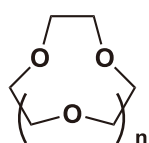
100mg
[T1378]



Cyclobis(paraquat-1,4-phenylene) Tetrakis(hexafluorophosphate)

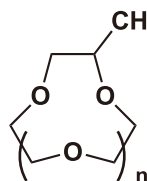
100mg
[C1749]

冠醚



n=2 12-Crown 4-Ether
n=3 15-Crown 5-Ether
n=4 18-Crown 6-Ether
n=6 24-Crown 8-Ether

1mL / 5mL [C0858]
5mL / 25mL [C0859]
5g / 25g / 100g [C0860]
1g [C1736]



n=2 2-(Hydroxymethyl)-12-crown 4-Ether
1g / 5g [H0982]
n=3 2-(Hydroxymethyl)-15-crown 5-Ether
1g / 5g / 25g [H0983]
n=4 2-(Hydroxymethyl)-18-crown 6-Ether
200mg / 1g [H0990]

R=H

n=2 Benzo-12-crown 4-Ether

1g / 5g [B1249]

R=Br

n=3 Benzo-15-crown 5-Ether

1g / 5g [B1154]

n=4 Benzo-18-crown 6-Ether

1g / 5g [B1539]

R=NH₂

n=3 4'-Bromobenzo-15-crown 5-Ether

1g / 5g [B1249]

R=NO₂

n=4 4'-Bromobenzo-18-crown 6-Ether

1g / 5g [B2181]

R=CHO

n=3 4'-Aminobenzo-15-crown 5-Ether

1g [A1404]

R=COCH₃

n=3 4'-Nitrobenzo-15-crown 5-Ether

1g / 5g [N0561]

R=COOH

n=4 4'-Nitrobenzo-18-crown 6-Ether

1g / 5g [N0562]

R=COOCH₃

n=3 4'-Formylbenzo-15-crown 5-Ether

100mg [F0448]

n=4 4'-Formylbenzo-18-crown 6-Ether

500mg [F0451]

n=3 4'-Acetylbenzo-15-crown 5-Ether

1g [A1603]

n=4 4'-Acetylbenzo-18-crown 6-Ether

1g [A1604]

n=3 4'-Carboxybenzo-15-crown 5-Ether

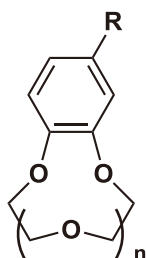
1g [C1713]

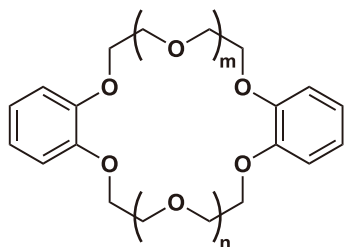
n=4 4'-Carboxybenzo-18-crown 6-Ether

100mg / 1g [C1714]

n=4 4'-Bromobenzo-18-crown 6-Ether

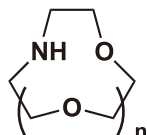
1g / 5g [B2181]





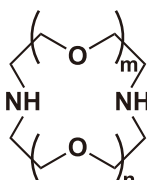
m=0 n=1 Dibenzo-15-crown 5-Ether
m=1 n=1 Dibenzo-18-crown 6-Ether
m=1 n=2 Dibenzo-21-crown 7-Ether
m=2 n=2 Dibenzo-24-crown 8-Ether
m=3 n=3 Dibenzo-30-crown 10-Ether

1g [D2877]
 5g / 25g [D1533]
 1g [D2878]
 1g / 5g [D1830]
 1g [D2684]



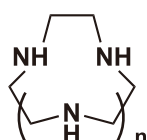
n=2 1-Aza-12-crown 4-Ether
n=3 1-Aza-15-crown 5-Ether
n=4 1-Aza-18-crown 6-Ether

250mg / 1g [A1552]
 1g / 5g [A1323]
 1g / 5g [A1324]



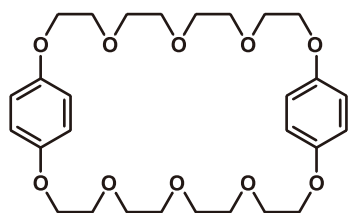
m=1 n=1 4,10-Diaza-12-crown 4-Ether
m=1 n=2 4,10-Diaza-15-crown 5-Ether
m=2 n=2 4,13-Diaza-18-crown 6-Ether

100mg [D2743]
 1g [D2744]
 1g / 5g [D2323]

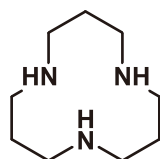


n=1 1,4,7-Triazacyclononane
 1,4,7-Triazacyclononane Trihydrochloride
n=2 1,4,7,10-Tetraazacyclododecane
 1,4,7,10-Tetraazacyclododecane Tetrahydrochloride
n=3 1,4,7,10,13,16-Hexaazacyclooctadecane
 1,4,7,10,13,16-Hexaazacyclooctadecane Hexahydrochloride

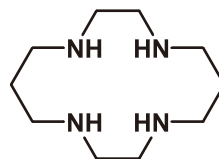
200mg / 1g / 5g [T1878]
 1g / 5g [T1600]
 1g / 5g [T1874]
 1g / 5g [T1426]
 100mg [H1070]
 100mg [H1215]



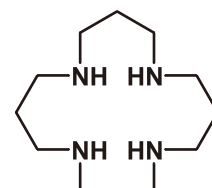
Bis(1,4-phenylene)-34-crown 10-Ether
 100mg
 [B2245]



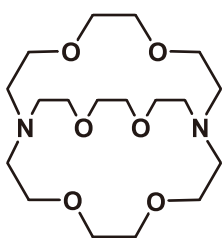
1,5,9-Triazacyclododecane
 100mg
 [T1876]



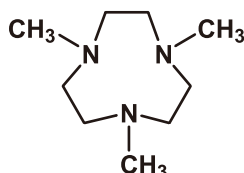
1,4,8,11-Tetraaza-
 cyclotetradecane
 1g / 5g
 [T1597]



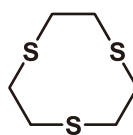
1,4,8,12-Tetraaza-
 cyclopentadecane
 1g / 5g
 [T1691]



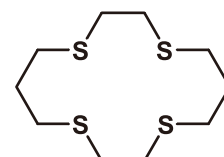
4,7,13,16,21,24-Hexaoxa-
 1,10-diazabicyclo[8.8.8]hexacosane
 1g / 5g
 [H0932]



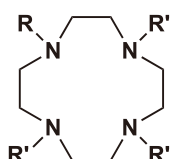
1,4,7-Trimethyl-
 1,4,7-triazacyclononane
 1g / 5g
 [T1879]



1,4,7-Trithiacyclononane
 500mg
 [T1972]



1,4,8,11-Tetrathiacyclotetradecane
 200mg / 1g
 [T1959]



R,R'=CH₂Ph

1,4,7,10-Tetrabenzyl-1,4,7,10-tetraazacyclododecane

1g / 5g [T3356]

R,R'=CH₂COOH

1,4,7,10-Tetraazacyclododecane-1,4,7,10-tetraacetic Acid

200mg / 1g [T1875]

R,R'=CH₂COOEt

1,4,8,11-Tetraazacyclotetradecane-1,4,8,11-tetraacetic Acid Tetraethyl Ester

200mg [T2540]

R=H, R'=CH₂COOtBu

1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic Acid Tri-tert-butyl Ester

200mg [T2541]

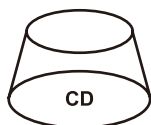
R=CH₂COOH, R'=CH₂COOtBu

1,4,7,10-Tetraazacyclododecane-1,4,7,10-tetraacetic Acid Tri-tert-butyl Ester

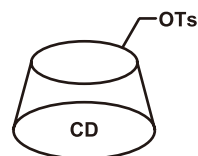
100mg / 1g [T2642]

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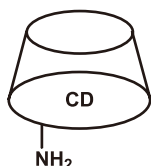
环糊精



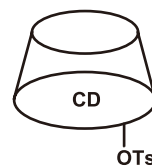
α-Cyclodextrin 10g / 25g / 100g [C0776]
β-Cyclodextrin 25g / 100g [C0777]
γ-Cyclodextrin 5g / 25g / 100g [C0869]



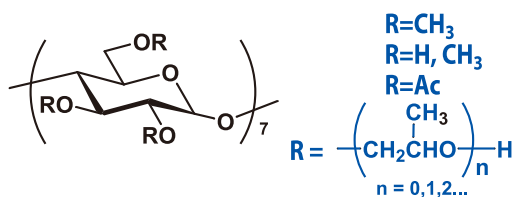
Mono-6-O-(p-toluenesulfonyl)-
α-cyclodextrin 200mg / 1g [M1644]
β-cyclodextrin 200mg [M1381]
γ-cyclodextrin 200mg [M1645]



3A-Amino-3A-deoxy-(2AS,3AS)-
α-cyclodextrin Hydrate 200mg / 1g [A2122]
β-cyclodextrin Hydrate 200mg / 1g [A1916]
γ-cyclodextrin Hydrate 200mg / 1g [A2123]

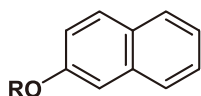


Mono-2-O-(p-toluenesulfonyl)-
α-cyclodextrin 200mg / 1g [M1956]
β-cyclodextrin Hydrate 200mg / 1g [M1741]
γ-cyclodextrin 200mg / 1g [M1957]

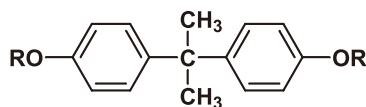


Trimethyl-β-cyclodextrin 1g [T1094]
Methyl-β-cyclodextrin 25g / 250g [M1356]
Triacetyl-β-cyclodextrin 25g [T1844]

Hydroxypropyl-β-cyclodextrin 25g / 100g [H0979]



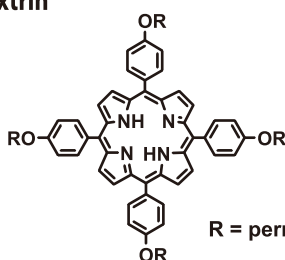
R = permethyl-α-CD



R = permethyl-α-CD

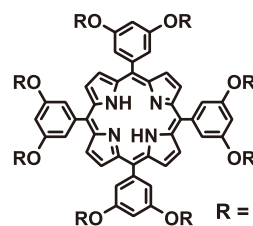
Mono-6-O-(2-naphthyl)-
per-O-methyl-α-cyclodextrin
 10mg [M1876]

2,2-Bis[4-(per-O-methyl-α-cyclodextrin-6-yloxy)phenyl]propane
 10mg [B3026]



R = permethyl-α-CD

5,10,15,20-Tetrakis[4-(per-O-methyl-α-cyclodextrin-6-yloxy)-phenyl]-21H,23H-porphine
 10mg [T2451]



R = permethyl-α-CD

5,10,15,20-Tetrakis[3,5-bis(per-O-methyl-α-cyclodextrin-6-yloxy)-phenyl]-21H,23H-porphine
 10mg [T2452]

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大环化合物



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