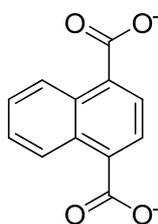


Supporting information

The Current Status of Hydrogen Storage in Metal-Organic Frameworks

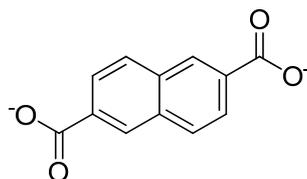
Dan Zhao, Daqiang Yuan and Hong-Cai Zhou*

Abbreviation, full name and chemical structure of the ligands listed in table 1



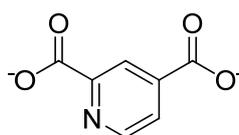
1,4-ndc

1,4-naphthalenedicarboxylate



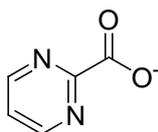
2,6-ndc

2,6-naphthalenedicarboxylate



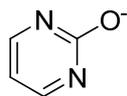
2,4-pdc

2,4-pyridinedicarboxylate

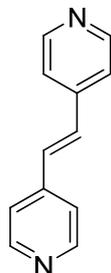


2-pmc

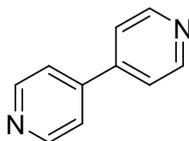
2-pyrimidinecarboxylate



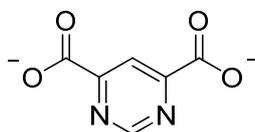
2-pymo
2-pyrimidinolate



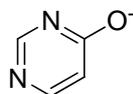
4,4'-bpe
4,4'-trans-bis(4-pyridyl)-ethylene



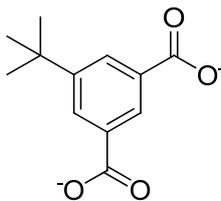
4,4'-bipy
4,4'-bipyridine



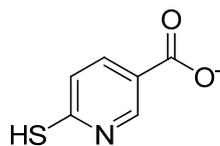
4,6-pmdc
4,6-pyrimidicarboxylate



4-pymo
4-pyrimidinolate

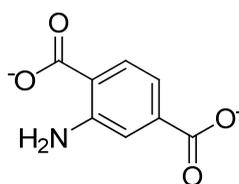


5-bbdc
5-tert-butyl-1,3-benzenedicarboxylate



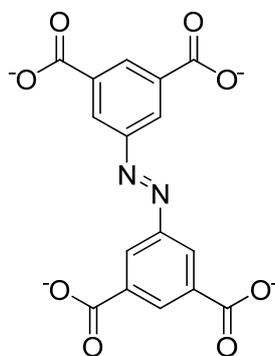
6-mna

6-mercapto-3-pyridinecarboxylate



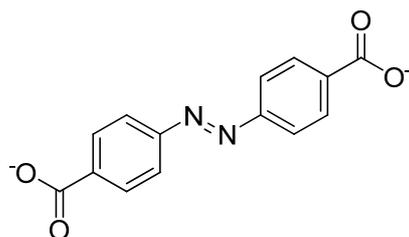
abdc

2-aminobenzene-1,4-dicarboxylate



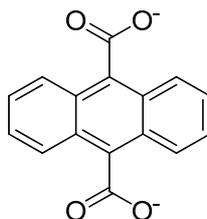
abtc

azobenzene-3,3',5,5'-tetracarboxylate



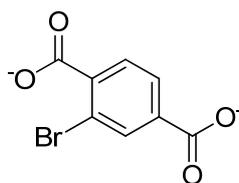
adc

4,4'-azobenzenedicarboxylate



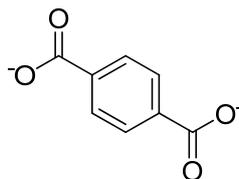
atdc

9,10-anthracenedicarboxylate



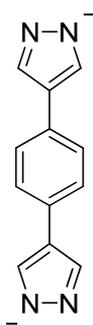
bbdc

2-bromobenzene-1,4-dicarboxylate



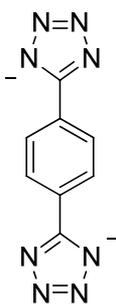
bdc

1,4-benzenedicarboxylate



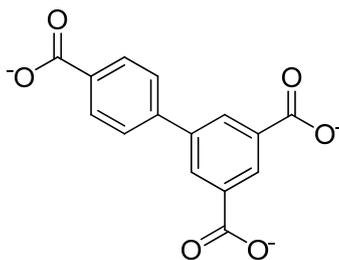
bdp

1,4-benzenedi(4'-pyrazolyl)



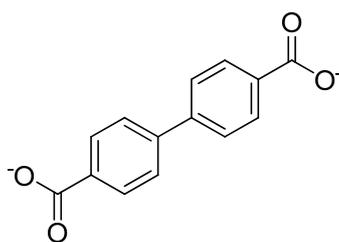
bdt

1,4-benzeneditetrazolate



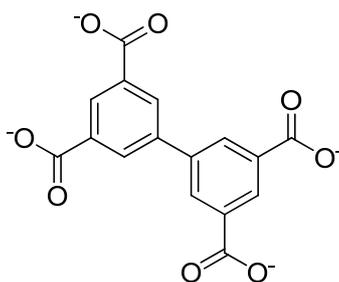
bhtc

biphenyl-3,4',5-tricarboxylate



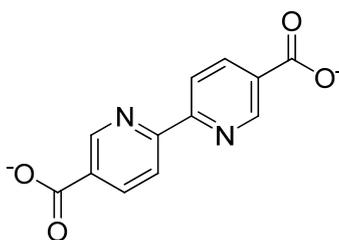
bpdc

4,4'-biphenyldicarboxylate



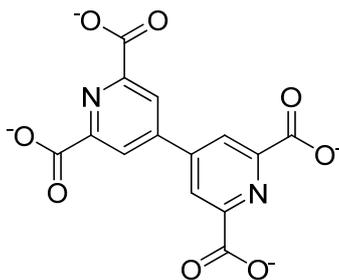
bptc

3,3',5,5'-biphenyltetracarboxylate



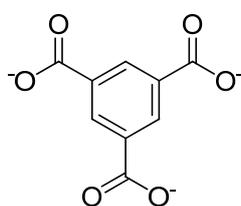
bpydc

2,2'-bipyridyl-5,5'-dicarboxylate



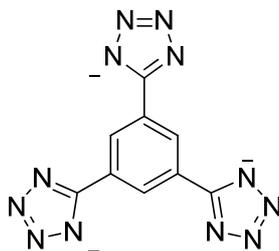
bpytc

4,4'-bipyridine-2,6,2',6'-tetracarboxylate



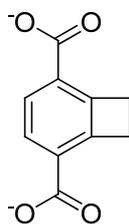
btc

1,3,5-benzenetricarboxylate



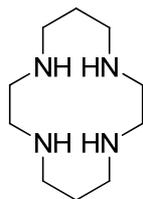
btt

1,3,5-benzenetristetrazolate



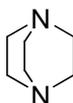
cbbdc

1,2-dihydrocyclobutabenzene-3,6-dicarboxylate



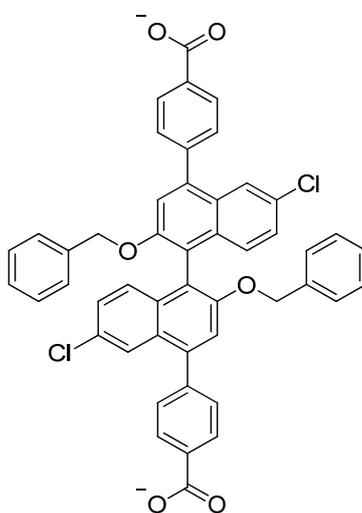
cyclam

1,4,8,11-tetraazacyclotetradecane



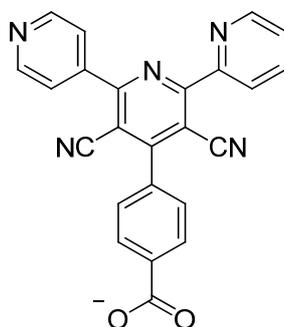
dabco

1,4-diazabicyclo[2.2.2]octane



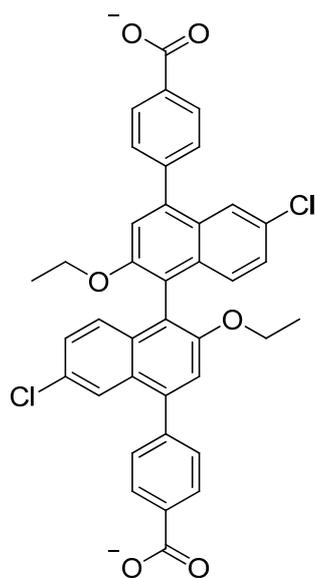
Dbbd

6,6'-dichloro-2,2'-dibenzyloxy-1,1'-binaphthyl-4,4'-dibenzoate



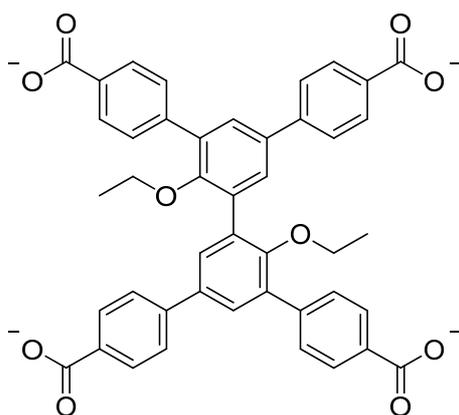
dccptp

3,5-dicyano-4-(4-carboxyphenyl)-2,2':6'4''-terpyridine



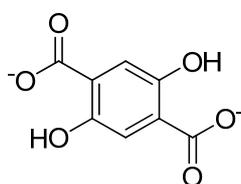
debd

6,6'-dichloro-2,2'-diethoxy-1,1'-binaphthyl-4,4'-dibenzoate



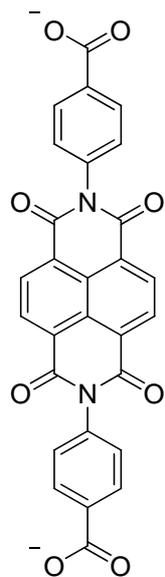
detkb

2,2'-diethoxybiphenyl-3,3',5,5'-tetra-kis(benzoate)



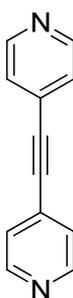
dhbdc

2,5-dihydroxybenzene-1,4-dicarboxylate



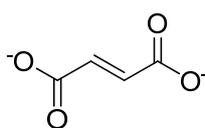
dipyni

N,N'-di-(4-pyridyl)-1,4,5,8-naphthalenetetracarboxydiimide



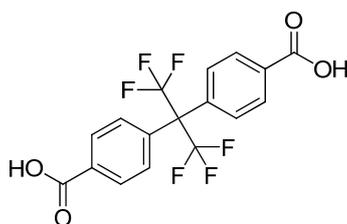
dpac

4,4'-dipyridylacetylene



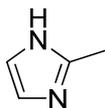
fma

fumarate



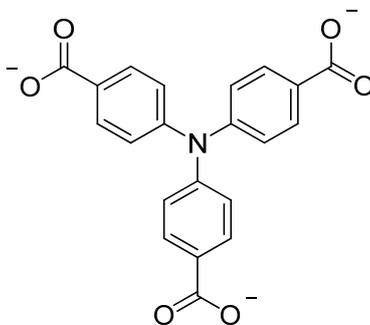
hfipbb

4,4'-(hexafluoroisopropylidene)bis(benzoate)



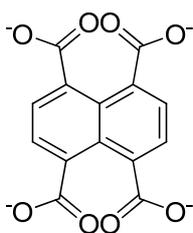
meim

2-methylimidazole



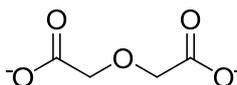
ntb

4,4',4''-nitrilotrisbenzoic acid



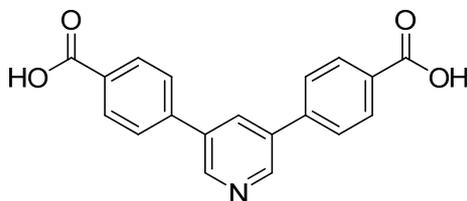
ntc

naphthalene-1,4,5,8-tetracarboxylate



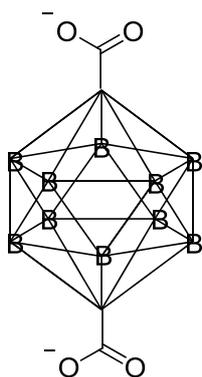
oxdc

oxydiacetate



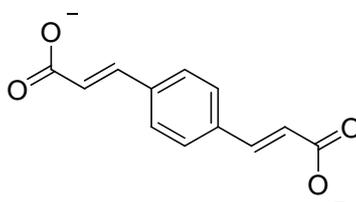
pbpc

pyridine-3,5-bis(phenyl-4-carboxylate)



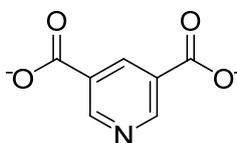
p-cdc

1,12-dihydroxy-carbonyl-1,12-dicarba-closo-dodecaborane



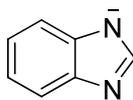
pda

p-phenylenediacrylate



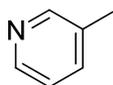
pdc

pyridine-3,5-dicarboxylate



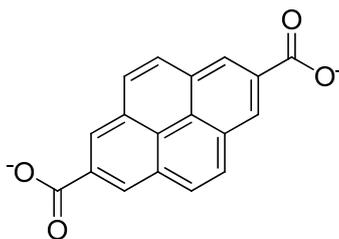
phim

benzimidazolone

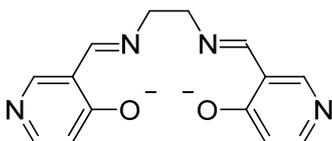


pic

3-picoline



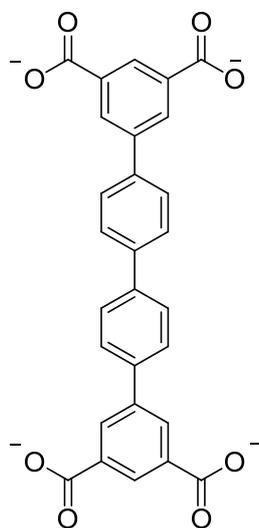
pydc
pyrene-2,7-dicarboxylate



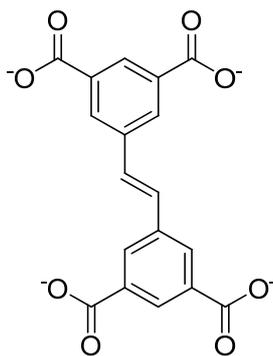
pyen
3,3'-(1E,1'E)-(ethane-1,2-diylbis(azan-1-yl-1-ylidene))bis(methan-1-yl-1-ylidene)dipyridin-4-olate



pyz
pyrazine

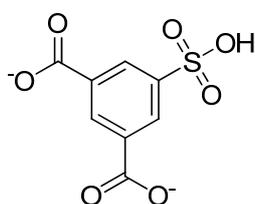


qptc
quaterphenyl-3,3'',5,5''-tetracarboxylate



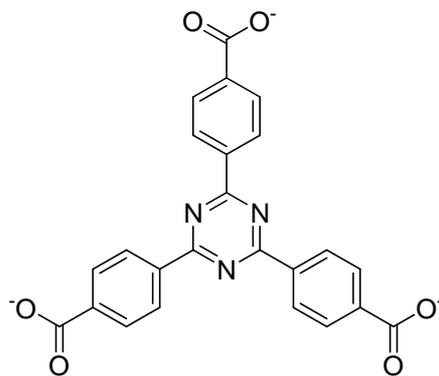
sbtc

trans-stilbene-3,3',5,5'-tetracarboxylate



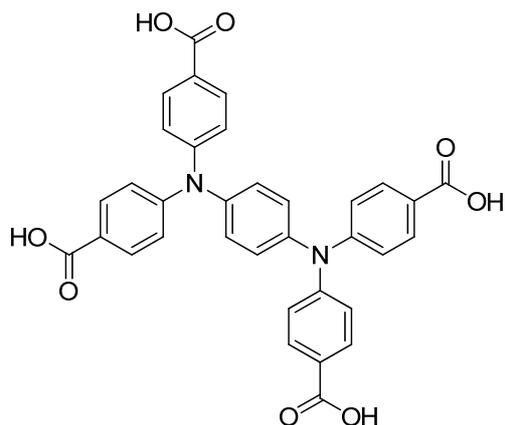
sip

5-sulfoisophthalate



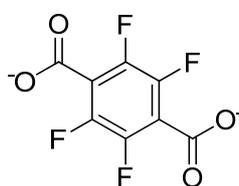
tatb

4,4',4''-s-triazine-2,4,6-triyltribenzoate



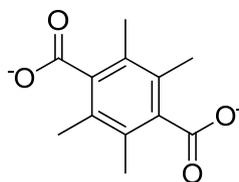
tcppda

N,N,N',N'-tetrakis(4-carboxyphenyl)-1,4-phenylenediamine



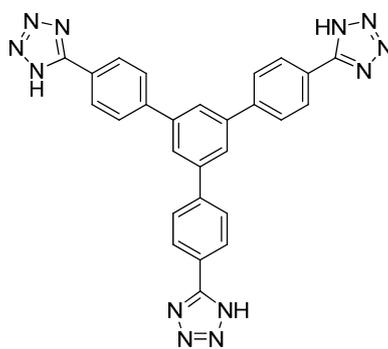
tfbdc

tetrafluoroterephthalate



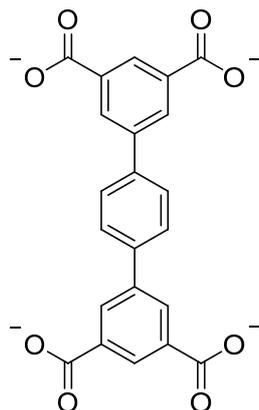
tmbdc

tetramethylterephthalate



tpb-3tz

1,3,5-tri-p-(tetrazol-5-yl)phenylbenzene



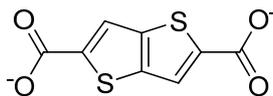
tptc

terphenyl-3,3'',5,5''-tetracarboxylate



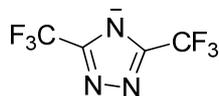
trz

1,2,4-triazole



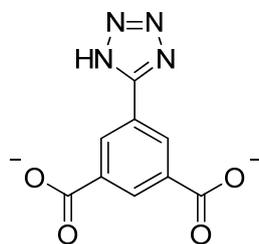
ttdc

thieno[3,2-b]thiophene-2,5-dicarboxylate



tz

3,5-bis(trifluoromethyl)-1,2,4-triazolate



tzi

5-tetrazolylisophthalate