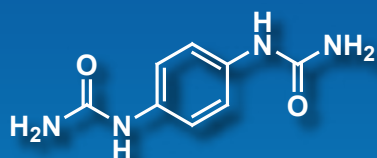


New

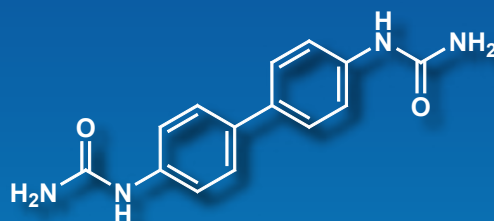
MATERIALS



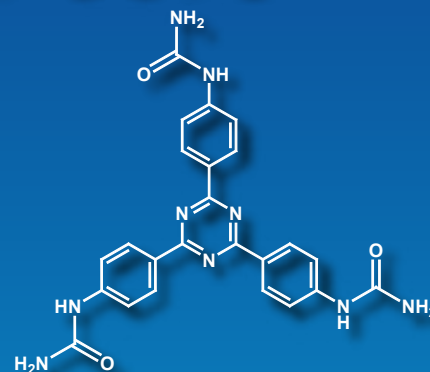
Diurea Linkers for the Synthesis of Reconstructed COFs



1,1'-(1,4-Phenylene)diurea
1g / 5g
[P3216]



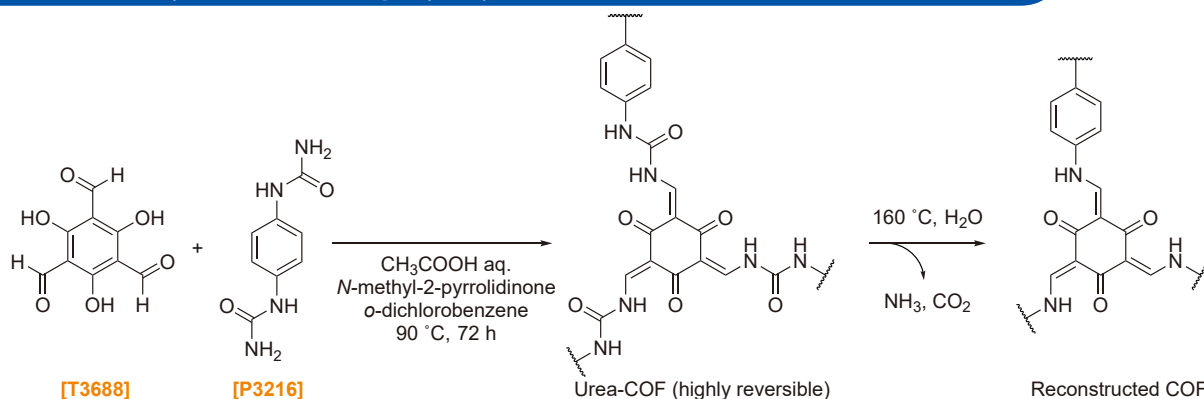
1,1'-(4,4'-Biphenylene)diurea
1g / 5g
[B6577]



1,1',1''-(1,3,5-Triazine-2,4,6-triyltri-4,1-phenylene)triurea
1g
[T4192]

These diurea and triurea derivatives are useful for the synthesis of covalent organic structures (COFs) consisted of urea bonds.¹⁾ In addition, reconstruction of β -ketoenamine COFs is enabled by hydrolysis of urea-based COFs and subsequent imine condensation. Synthesis of COFs with high crystallinity and porosity has been reported by this method.²⁾

Application: Synthesis of highly crystalline COFs via "reconstruction"²⁾



References 1) O. M. Yaghi *et al.*, *J. Am. Chem. Soc.* **2018**, *140*, 16438. <https://doi.org/10.1021/jacs.8b10612>
2) A. I. Cooper *et al.*, *Nature* **2022**, *604*, 72. <https://doi.org/10.1038/s41586-022-04443-4>

Related Products

2,4,6-Triformylphloroglucinol (=Tp, TPG, TFP)
2,4-Dihydroxybenzene-1,3,5-tricarbaldehyde
2,5-Dihydroxyterephthalaldehyde

200mg / 1g [T3688]
1g / 5g [D6046]
1g / 5g [D5510]

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