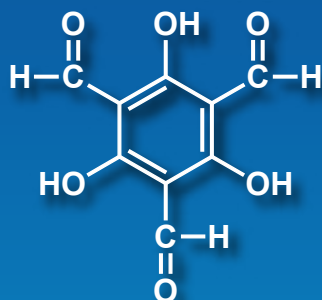
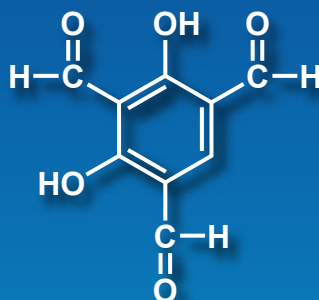


Aldehyde Linkers for β -Ketoenamine Linked Covalent Organic Frameworks (COFs)



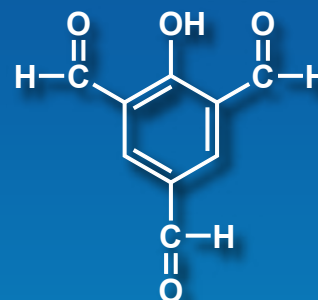
2,4,6-Trihydroxybenzene-1,3,5-tricarbaldehyde

200mg / 1g
[T3688]



2,4-Dihydroxybenzene-1,3,5-tricarbaldehyde

1g / 5g
New [D6046]



2-Hydroxy-1,3,5-benzenetricarbaldehyde

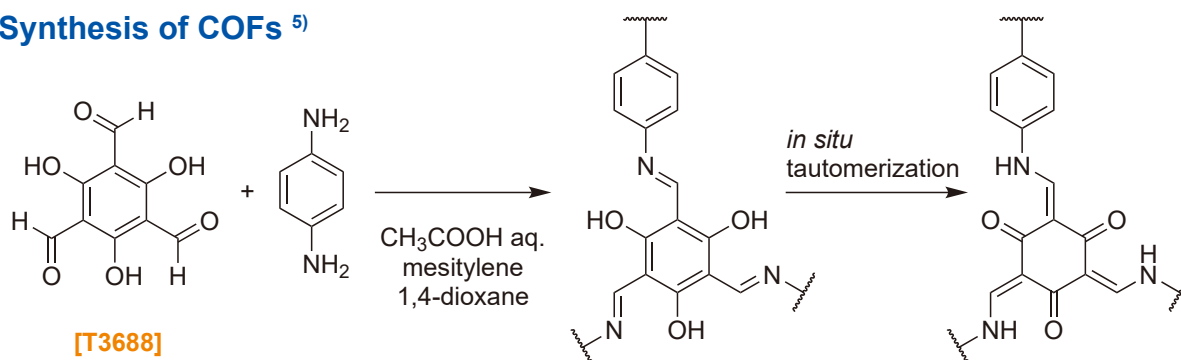
1g
[H1651]

Advantages

- Allows the synthesis of β -ketoenamine-linked COFs.
- The properties of COFs can be modified by the quantity of hydroxyl groups.

Applications

Synthesis of COFs ⁵⁾



- References**
- 1) F. Liu, Y. Chen, *et al.*, *ACS Catal.* **2022**, *12*, 9494. <https://doi.org/10.1021/acscatal.2c02173>
 - 2) S. Haldar, R. Vaidhyanathan, *et al.*, *J. Am. Chem. Soc.* **2018**, *140*, 13367. <https://doi.org/10.1021/jacs.8b08312>
 - 3) N. Singh, J. Baeg, *et al.*, *ACS Appl. Mater. Interfaces* **2021**, *13*, 14122. <https://doi.org/10.1021/acsmi.0c21117>
 - 4) S. Haldar, R. Vaidhyanathan, *et al.*, *ACS Materials Lett.* **2019**, *1*, 490. <https://doi.org/10.1021/acsmaterialslett.9b00222>
 - 5) S. Kandambeth, R. Banerjee, *et al.*, *J. Am. Chem. Soc.* **2012**, *134*, 19524. <https://doi.org/10.1021/ja308278w>

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