



Basic Information and Product Property

Chemical Name: Fe-BTC
 Product Number: MOFFE300.030.01
 CAS-NO: 1195763-37-1
 Synonyms: Iron 1,3,5-benzenetricarboxylate, Basolite^(R) F300
 Unit Molecular Formula: C₉H₃FeO₆
 Unit Molecular Weight: 262.96 g/mol
 Appearance: Brown Powder
 BET surface area (m²/g): ≥ 800
 Coordination Metal: Fe
 Linker: 1, 3, 5-Benzenetricarboxylic acid (BTC)

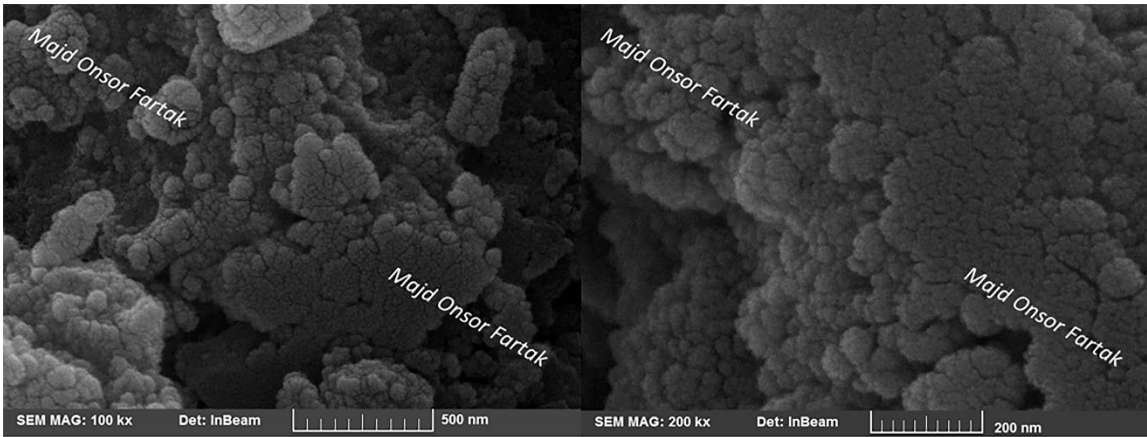


Applications

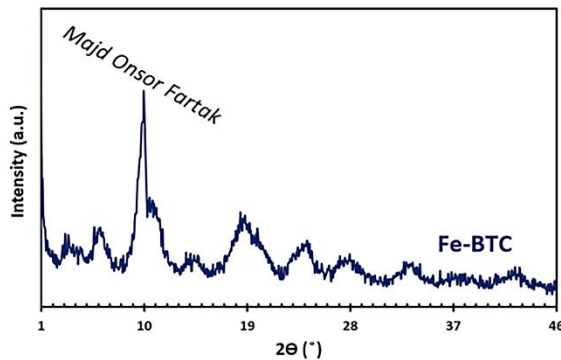
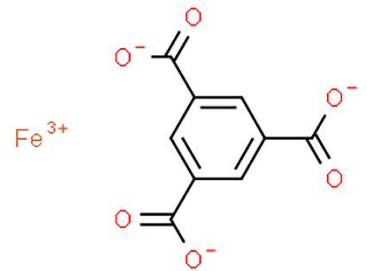
- 1) Gas adsorption separation and storage
- 2) Catalysts
- 3) Energy storage through lithium-ion batteries

Stability and Preservation

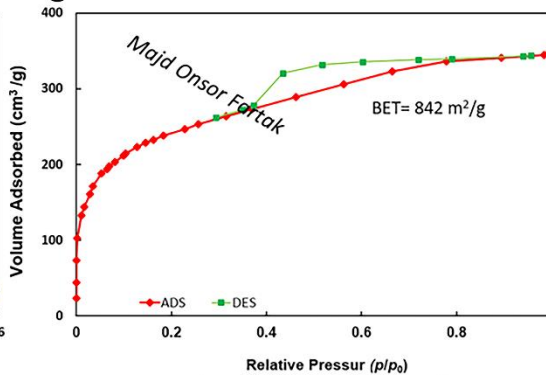
Fe-BTC is stable in air and aqueous conditions
 Keep sealed in dry condition
 It is recommended to activate for 5 hours at 150° C in vacuum



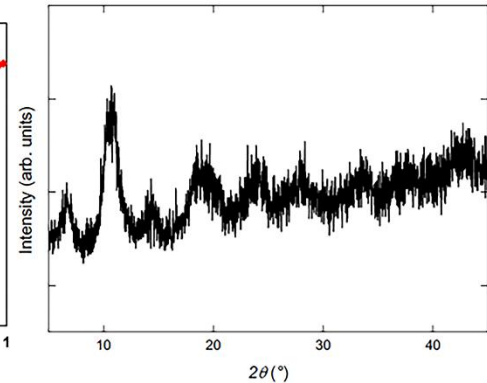
Typical SEM Image of Fe-BTC



XRD Analysis of Fe-BTC



N₂ Sorption Isotherm of Fe-BTC



XRD Analysis of Basolite[®] F300¹

1. Sapnik, A.F., Bechis, I., Collins, S.M. et al. Mixed hierarchical local structure in a disordered metal–organic framework. Nat Commun 12, 2062 (2021).

