















ZIF-8

nidazole Zinc Salt

Forn: White Powder

NS6130-12-000476

C8H10N4Zn, Purity: 99.9%, APS: 0.5⁻⁴⁰

Lead Time 2-3 Weeks, CAS: 59061-53-

2-Methylimidazole Zinc Salt

ZIFs possess the unique properties of high crystallinity, large surface area, exceptional chemical and functional tunability. As a result, ZIFs have gained considerable attention for their potential application in gas storage, CO2 capture, separation, sensing, catalysis, drug delivery, and water treatment. Zeolitic imidazolate framework-8 (ZIF-8), with sodalite (SOD) topology constructed from Zn and Hmim, is one of the most investigated ZIF materials.

Quick Facts

Synonyms ZIF-8 Stock No. NS6130-12-000476 **CAS** 59061-53-9 Purity 99 % **APS** $0.5-4 \, \mu m$ Molecular Formula C8H10N4Zn Molecular Weight 229.6 g/mol Form Powder

Properties **Properties**

- Large Surface Area
- High degree of crystallinity
- Low density
- Uniform channels
- **Porosity**
- High thermal stability
- Chemical tailor ability

2-Methylimidazole

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Zinc Salt



Applications



Food

- → Quality control (e.g. moisture control)
- → Food storage (e.g. suppression of ripening agents)
- Shelf life management (e.g. triggered release of ripening agents)
- Delievery of agrochemicals (e.g. triggered release of fertilizers etc.)



Gas storage

- Compressed gas storage (e.g. natural gas, hydrogen, etc.)
- → Toxic and reactive gas systems (e.g. via sub-atmospheric storage systems)
- Carbon capture and sequestration (CCS)



Conductivity

- Electronics
- → Batteries (e.g. electrodes, electrolytes, etc.)
- → Optoelectronic devices (e.g. solar cells)
- Additives



Catalysis

- → Catalytic support and immobilization
- → Encapsulation of catalytic active species
- → Unprecedented selectivity and activity



Sensoring and detection

- → Gas/vapor and small molecule detection
- → Luminescence (e.g. scintillation)
- Medical diagnostics
- → Explosive detection



Gas Treatment

- Separation (e.g. hydrocarbons, CO2, O2, H2, NH3, H2S, toxics, etc.)
- Purification
- Impurity and odor removal
- → Filtering (e.g. molecular sieves)



Textile upgrading

- → Additives
- → Personal protection
- → Chemical, biological, radiological and nuclear (CBRN) defense



Gas and liquid adsorption

- Drug Delivery (e.g. slow release of target molecules)
- Water harvesting
- Removal of toxic and hazardous substances (e.g. chemical warfare agents)
- Heat transformation (e.g. adsorption heat pumps)
- → Respiratory systems (e.g. gas masks)
- Water treatment (e.g. heavy metal removal)







ISO 9001:2015 CERTIFIED COMPANY

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