



MATERIAL INFORMATION SHEET

Bicyclo[2.2.2]octane-2,3,5,6-tetracarboxylic 2,3:5,6-dianhydride (HBTA)

CAS	2754-40-7
Sum formula	C ₁₂ H ₁₀ O ₆
Mol. weight	250.20 g/mol

PHYSICAL / CHEMICAL PROPERTIES

Appearance	(off)-white crystalline; solid
Melting point	373°C
Solubility	under investigation
Stability	stable under ambient conditions

SPECIFICATION / STRUCTURE proof*

¹ H/ ¹³ C NMR	conform to reference
IR	conform to reference
q- ¹ H NMR	≥97%
2D-Noesy*	conform to structure; Exo-Exo

* data available; not done for each batch

APPLICATION FIELDS

Used in the production of polymers, polymers for displays, photosensitive polyimides, in materials for high temperature applications and in pharmaceuticals as building-block.

- [1] WO2025063230 A1 (2025) Polyimide, resin composition, molded object, and film
 [2] CN119192636 (2024) Preparation method of semi-aromatic polyimide dielectric film
 [3] WO2024157869 (2024) Polyimide-containing liquid crystal aligning agent, liquid crystal alignment film, and liquid crystal display element
 [4] US20230295366 (2023) Polyimide precursor, preparation method thereof, photosensitive resin composition and cured product

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