



## MATERIAL INFORMATION SHEET

### Bicyclo[2.2.2]oct-7-ene-2,3:5,6-tetracarboxylic dianhydride (BTA)

CAS	1719-83-1
Sum formula	$C_{12}H_8O_6$
Mol. weight	248.19 g/mol

### PHYSICAL / CHEMICAL PROPERTIES

Appearance	(off)-white crystalline; solid
Melting point	>300°C
Solubility	0.1g/g (23.5°C) 0.25g/g (150°C) in N,N-Dimethylacetamide, similar in NMP and DMF
Stability	stable under ambient conditions

### SPECIFICATION / STRUCTURE proof\*

$^1H/^{13}C$ NMR	conform to reference
IR	conform to reference
q- $^1H$ NMR	≥99%
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] CN119613720 (2025) Polyimide slurry for flexible display substrate, film and preparation method thereof

[2] WO2025010866 (2025) Preparation method for low-cost plastic-based titanium alloy feeding material for metal powder injection molding

[3] KR2025008566 (2025) Transparent polyimide protective film for solar cell module with excellent weather resistance and self-cleaning capability and method for manufacturing the same

[4] WO2007029614 A1 (2007) Positive photosensitive resin compositions for forming relief patterns

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