



MATERIAL INFORMATION SHEET

1,2,4,5-Cyclohexanetetracarboxylic 1,2:4,5-diimide (CHDI)*

CAS	46688-10-2
Sum formula	$C_{10}H_{10}N_2O_4$
Mol. weight	222.197 g/mol

PHYSICAL / CHEMICAL PROPERTIES

Appearance	(off)-white crystalline; solid
Melting point	374°C
Solubility	under investigation
Stability	stable under ambient conditions

SPECIFICATION / STRUCTURE proof

¹ H/ ¹³ C NMR	conform to reference
IR	conform to reference
Water	<0.5%
q-1H NMR	≥95%

APPLICATION FIELDS

Used in the production of polymers, in halogen-free flame retardants resins, in materials for high temperature applications, electrochemical storage and in pharmaceuticals as building-block.

[1] US20100055513 (2010) System and method for electrochemical energy conversion and storage

[2] Effective Internal and External Modulation of Nontraditional Intrinsic Luminescence, Lai, Yueying, 2020.

[3] WO2013121917 (2013) Diamines having amide or ester bonds, polyimides having structural repeating units derived from them,

polyimide films, and utilization of polyimide films.

HAVE WE CAUGHT YOUR INTEREST?

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* Feasibility in production scale to be proven. For further materials please see www.valsynthese.ch/products



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