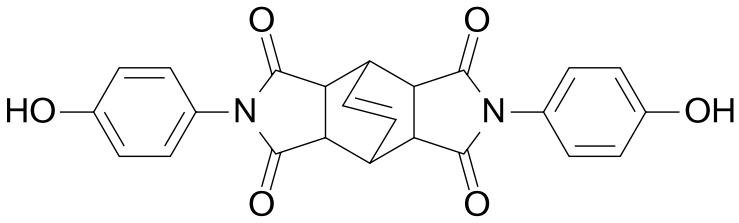
VALSYNTHESE



MATERIAL INFORMATION SHEET

N,N'-Bis(4-hydroxyphenyl)bicyclo[2,2,2]oct-7-ene-2,3,5,6-tetracarboxylic 2:3,5:6-diimide (BTA-PAP)

CAS	71669-19-7
Sum formula	$C_{24}H_{18}N_2O_6$
Mol. weight	430.41 g/mol

PHYSICAL / CHEMICAL PROPERTIES

Appearance	(off)-white to pinkish powder; solid
Melting point by DSC	Non up to 400°C
Decomposition by DSC	Non up to 400°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	≥98%
MS (ESI)*	Conform to structure; 429.1088 g/mol (neg)

* data available; not done for each batch

APPLICATION FIELDS

Used in the production of polymers, epoxy resins, polycarbonate and PFAS/PFOA-free polymers. The bisphenol-imide combination increases solubility and thermal stability compared to classical bisphenol starting materials.

[1] Angew. Makromol. Chem. 1992, 195(1), 129-137, Preparation of prepolymers from diglycidyl ether of bisphenol A containing imide groups.
[2] Environ. Sci. Technol. 2016, 50, 11, 5438–5453, Bisphenol Analogues Other Than BPA: Environmental Occurrence, Human Exposure, and Toxicity—A Review.

HAVE WE CAUGHT YOUR INTEREST?

Please contact us under **www.valsynthese.ch/contact**

Société Suisse des Explosifs Group

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