

## Product Name: Zn(II) Phthalocyanine tetra sulfonic acid

Catalog Number: ZnPcS-834



Sizes Available: 100 mg, 250 mg, and larger sizes available

Molecular weight: 898.15 g/mol

Molecular Formula: C<sub>32</sub>H<sub>16</sub>N<sub>8</sub>O<sub>12</sub>S<sub>4</sub>Zn

CAS Number: 61586-86-5

Storage: Store at room temperature and protect from light.

**Synonyms:** Zinc phthalocyanine tetrasulfonate, zinc tetrasulfophthalocyanine, zinc tetrasulfophthalocyanine tetrasodium salt, Zn-TSPC, ZnPcS4

Field of Interest: Photodynamic therapy

**Background:** Zn(II) Phthalocyanine tetrasulfonic acid has been extensively investigated as an agent for photodynamic therapy due to emission in the near infrared region.

## **References:**

1) Sekkat, N., van den Bergh, H., Nyokong, T., Lange, N.; Like a Bolt from the Blue: Phthalocyanines in Biomedical Optics. *Molecules* **2012**, *17*, 98-144; https://doi.org/10.3390/molecules17010098

2) Wang, J., Zhang, Y., Ye, J., Jiang, Z.; Enhanced fluorescence of tetrasulfonated zinc phthalocyanine by graphene quantum dots and its application in molecular sensing/imaging. *Luminescence* **2017**, *3*2, 573-580. doi: 10.1002/bio.3223.

3) Chekwube, A.E., George, B., Arahamse, H.; Phototoxic effectiveness of zinc phthalocyanine tetrasulfonic acid on MCF-7 cells with overexpressed p-glycoprotein. J Photochem Photobiol B. 2020 Mar;204:111811.doi: 10.1016/j.jphotobiol.2020.111811.

Hazardous Properties and Cautions: The toxicological and pharmacological properties of this compound are not fully known. For further information see the SDS on request. **Zn(II)** Phthalocyanine tetrasulfonic acid is manufactured, shipped according to standard practices, and intended for research and development in a laboratory utilizing prudent procedures for handling chemicals of unknown toxicity, under the supervision of persons technically qualified to evaluate potential risks and authorized to enforce appropriate health and safety measures. As with all research chemicals, precautions should be taken to avoid unnecessary exposures or risks.

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