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Frontier Specialty Chemicals, Inc. **Technical Data Sheet**
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Catalog Number: **FeT1239**

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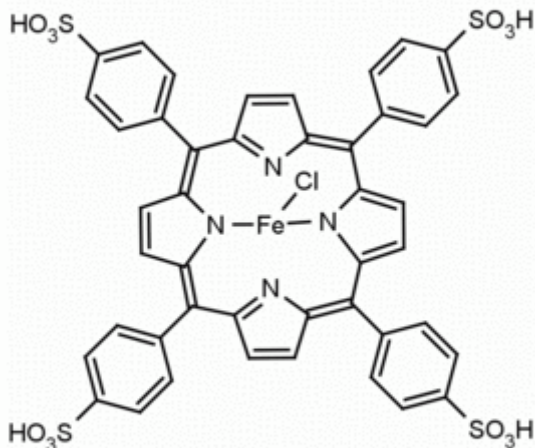
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For research use only

Not intended or approved for
diagnostic or therapeutic use.

**Product Name: Fe(III) meso-Tetra(4-sulfonatophenyl)porphine chloride
(acid form)**

Catalog Number: FeT1239



Sizes Available: 50 mg, 100 mg, 250 mg, 1 g and larger sizes available

Molecular weight: 1024.26 g/mol

Molecular Formula: C₄₄H₂₈ClFeN₄O₁₂S₄

CAS Number: 90384-82-0

Storage: Store at room temperature, protect from light

Synonyms: Fe(III)(tetrakis(4-sulfonatophenyl)porphyrin)}(3-), tetra(p-sulfonatophenyl)porphyrinatoiron(III), iron(III)-tetrakis(sulfonatophenyl)porphyrin,

tetrakis(4-sulfonatophenyl)porphyrinato iron(III)Fe(III) tetrakis(4-sulfonatophenyl)porphyrin, iron(III) tetrasulfophenylporphyrin

Field of Interest: Synthetic Porphyrin, Catalyst, Radical Scavenger

Background: **Fe(III) meso-Tetra(4-sulfonatophenyl)porphine chloride (acid form)** is a porphyrin based fine chemical product used in optics, photodynamic therapy, metal organic frameworks and as catalysts in chemical reactions¹⁻⁴

References:

- 1) Occhiuto, Ilaria Giuseppina, Zagami, Roberto, Trapani, Mariachiara, Castriciano, Maria Angela, Romeo, Andrea, Scolaro, Luigi Monsu, [Kinetic investigation on tetrakis \(4-sulfonatophenyl\)porphyrin J-aggregates formation catalyzed by cationic metallo-porphyrins](#), *Molecules* (2020), 25(23), 5742. Vanderkooi, Jane M., Maniara, Grzegorz, Green, Thomas J., Wilson, David F., [An optical method for measurement of dioxygen concentration based upon quenching of phosphorescence](#), *Journal of Biological Chemistry* (1987), 262(12), 5476-82.
- 2) Merchat, Michele, Bertolini, Giulio, Giacomini, Paolo, Villanueva, Angeles, Jori, Giulio, [Meso-substituted cationic porphyrins as efficient photosensitizers of Gram-positive and Gram-negative bacteria](#), *Journal of Photochemistry and Photobiology, B: Biology* (1996), 32(3), 153-7.
- 3) Schwab, Alexander D., Smith, Deirdre E., Rich, Collin S., Young, Elizabeth R., Smith, Walter F., De Paula, Julio C., [Porphyrin Nanorods](#), *Journal of Physical Chemistry B* (2003), 107(41), 11339-11345.
- 4) Ferdinandy, Peter, Danial, Hajira, Ambrus, Ildiko, Rothery, Richard A., Schulz, Richard, [Peroxynitrite is a major contributor to cytokine-induced myocardial contractile failure](#), *Circulation Research* (2000), 87(3), 241-247.

Hazardous Properties and Cautions: The toxicological and pharmacological properties of this compound are not fully known. For further information see the SDS on request. **Fe(III) meso-Tetra(4-sulfonatophenyl)porphine chloride (acid form)** 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.

Warranty and Disclaimer: Frontier Specialty Chemicals, Inc. warrants the product conforms to the specifications stated herein. In the event of nonconformity, Frontier will replace products or refund purchase price, at its sole option, and Frontier shall not be responsible for any other loss or damage, whether known or foreseeable to Frontier. No other warranties apply, express or implied, including but not limited to warranty of fitness for any purpose or implied warranty of merchantability. Purchaser is solely responsible for all consequences of its use of the product and Frontier assumes no responsibility therefore, including success of purchaser's research and development, or health or safety of any uses of the product.