



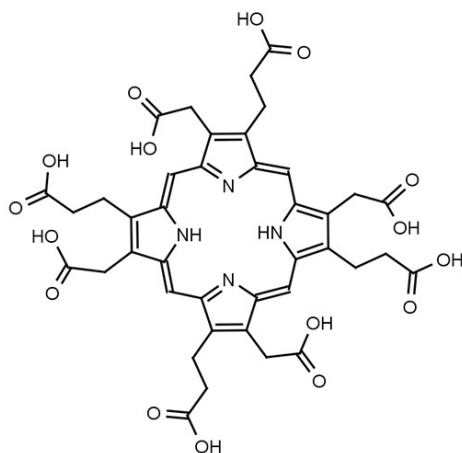
FRONTIER

SPECIALTY CHEMICALS

PO Box 31, Logan, Utah 84323 USA Tel 435 753 1901 Fax 435 753 6731
sales@FrontierSpecialtyChemicals.com www.FrontierSpecialtyChemicals.com

Technical Data Sheet

PRODUCT NAME: Uroporphyrin I



Catalog Number	CAS Number	Molecular Weight	Chemical Formula	Solubility
URO1	607-14-7	830.474 g/mol	C ₄₀ H ₃₈ N ₄ O ₁₆	Basic aqueous media

STORAGE: -20 °C

FIELD OF INTEREST: Uroporphyrin I is an important analyte used in the diagnosis of porphyria diseases. Uroporphyrin I is the oxidized porphyrin form of uroporphyrinogen I. The presence of Uroporphyrin I (or uroporphyrinogen I) in biological samples indicates a malfunction of the heme biosynthesis pathway in disorders such as congenital erythropoietic porphyria. Uroporphyrin I has been used as an MRI contrast agent, as a fluorescent marker, and in photodynamic therapy. Researchers are also exploring its accumulation effects in tissues, potential as a biomarker for environmental toxin exposure, and its implications in cancer detection. Its fluorescent properties make it useful in imaging studies and photodynamic therapy research, particularly in targeting abnormal cells. Additionally, Uroporphyrin I's interactions with metal ions and role in oxidative processes are being examined to better understand its contribution to cellular damage and aging mechanisms.

HAZARDOUS PROPERTIES AND CAUTIONS: Avoid inhalation, contact with skin or eyes, and ingestion. Always use personal protective. Equipment when handling this compound. (Additional information may be included in SDS)

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