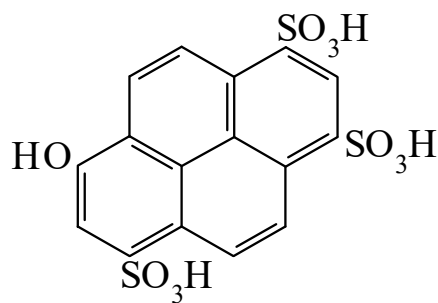




>>Entry Name: 8-Hydroxy-1,3,6-pyrenetrisulfonic acid, 9Cl

Synonym(s): Pyranine‡. HPT



CAS Registry Number: 27928-00-3

Molecular Formula: C₁₆H₁₀O₁₀S₃

Molecular Weight: 458.447

Accurate Mass: 457.94361

Percentage Composition: C 41.92%; H 2.20%; O 34.90%; S 20.98%

Use/Importance: Used in chromatography for the detn. of bile acids; fluorescent indicator for acid-base titrations

>>Derivative: Tri-Na salt

Synonym(s): C.I. Solvent green 7. Pyranine‡

CAS Registry Number: 6358-69-6

Use/Importance: Fluorescent dye

Physical Description: Yellow needles (+ H₂O)

Aldrich: 41772-6

Fluka: 56360

Sigma: H1529

>>Derivative: Trichloride, 8-Ac

Synonym(s): 8-(Acetyloxy)-1,3,6-pyrenetrisulfonyl trichloride, 9Cl

CAS Registry Number: 91991-08-1

Molecular Formula: C₁₈H₉Cl₃O₈S₃

Molecular Weight: 555.82

Accurate Mass: 553.852511

Percentage Composition: C 38.90%; H 1.63%; Cl 19.14%; O 23.03%; S 17.31%

Use/Importance: Fluorescent label for amines

References:

Tietze, E. *et al.*, *Annalen*, 1939, **540**, 189, (*synth*)

Kellogg, T.F. *et al.*, *J. Lipid Res.*, 1970, **11**, 498, (*use*)

Kano, K. *et al.*, *Biochim. Biophys. Acta*, 1978, **509**, 289, (*use*)

Goswami, S.K. *et al.*, *Lipids*, 1981, **16**, 759, (*use*)

Wolfbeis, O.S., *Fresenius' Z. Anal. Chem.*, 1985, **320**, 271, (*use*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, TNM000