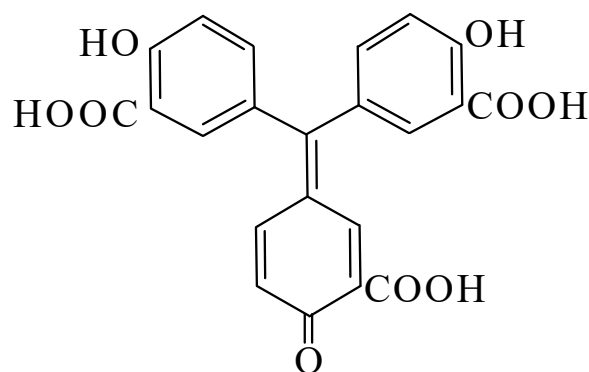




>>Entry Name: Aurintricarboxylic acid

Synonym(s): 5-[(3-Carboxy-4-hydroxyphenyl)(3-carboxy-4-oxo-2,5-cyclohexadien-1-ylidene)methyl]-2-hydroxybenzoic acid, 9Cl



CAS Registry Number: 4431-00-9

Molecular Formula: C₂₂H₁₄O₉

Molecular Weight: 422.347

Accurate Mass: 422.063785

Percentage Composition: C 62.57%; H 3.34%; O 34.09%

General Statement: The struct. shown is that generally given in the lit. but Aurintricarboxylic acid actually appears to be a mixt. of polymeric species

Use/Importance: Effective inhibitor of complement activity in pharmaceuticals. Potent inhibitor of cellular processes depending on the binding of nucleic acids to proteins. Appears to function as an oligonucleotide mimic

Aldrich: 12326-9

Sigma: A1895

>>Derivative: Tri-NH₄ salt

Synonym(s): Aluminon

CAS Registry Number: 569-58-4

Molecular Formula: C₂₂H₂₃N₃O₉

Molecular Weight: 473.438

Accurate Mass: 473.143432

Percentage Composition: C 55.81%; H 4.90%; N 8.88%; O 30.41%

Use/Importance: Commercially available. Used as 0.5% aq. soln. in photometric detn. Al, Be, rare earth elements, F⁽⁻⁾; metal indicator in titrimetric detn. of Al, In, Cu *et al*

Physical Description: Reddish-brown powder

Solubility: Sol. H₂O; sl. sol. EtOH; insol. non-polar solvs.

Hazard & Toxicity: Human reprod. effects by ingestion (male fertility). LD₅₀ (rat, orl) 9 g/kg

Aldrich: A3688-3

Fluka: 11360

Sigma: A5206

>>Derivative: Tri-Na salt

Synonym(s): C.I. Mordant violet 39. C.I. 43810

CAS Registry Number: 13186-45-3

Use/Importance: Dyestuff. Commercially available

Aldrich: 20150-2

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