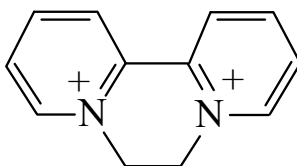




>>Entry Name: 6,7-Dihydrodipyrido[1,2-*a*:2',1'-*c*]pyrazinediium(2+), 9CI

Synonym(s): 9,10-Dihydro-8*a*,10*a*-diazoniaphenanthrene. 1,1'-Ethylene-2,2'-dipyridylum. 1,1'-(1,2-Ethanediy1)-2,2'-bipyridinium. **Diquat**, ANSI, BSI, ISO, JMAF, WSSA. Deiquat. Reglone. Aquacide



CAS Registry Number: 2764-72-9

Related CAS Registry Numbers(s): 6385-62-2

Molecular Formula: C₁₂H₁₂N₂²⁽⁺⁾

Molecular Weight: 184.24

Accurate Mass: 184.100048

Percentage Composition: C 78.23%; H 6.56%; N 15.20%

Other Data: Forms green radical on redn. with strong reducing agents

>>Derivative: Dibromide

Synonym(s): Diquat dibromide

CAS Registry Number: 85-00-7

Use/Importance: Powerful herbicide; contact plant desiccant

Physical Description: Cryst. + 1H₂O

Melting Point: Mp 340 dec.°

Solubility: V. sol. H₂O

Other Data: λ_{max} 308 nm (ε 18 000) (H₂O)

Hazard & Toxicity: OES: long-term 0.5 mg m⁻³; short-term 1 mg m⁻³. Symptoms of human exposure by ingestion similar to diquat and incl. gastrointestinal distrubance, ulceration of mucous membranes, liver and kidney injury, and respiratory distress. LD₅₀ (rat, orl) 120 mg/kg. LD₅₀ (rat, skn) 433 mg/kg. Produces cataracts in the eyes of rats in chronic feeding studies (dichloride)

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