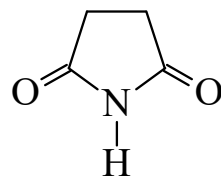




>>Entry Name: 2,5-Pyrrolidinedione, 9Cl

Synonym(s): Succinimide, 8Cl



CAS Registry Number: 123-56-8

Molecular Formula: C<sub>4</sub>H<sub>5</sub>NO<sub>2</sub>

Molecular Weight: 99.089

Accurate Mass: 99.032029

Percentage Composition: C 48.49%; H 5.09%; N 14.14%; O 32.29%

Use/Importance: Used for photometric detn. of Cu ( $\lambda_{\max}$  590 nm, pH 4-10)

Physical Description: Plates + 1H<sub>2</sub>O (EtOH aq.)

Melting Point: Mp 126-127°

Boiling Point: Bp 287-288° dec.

pKa Value: pK<sub>a1</sub> 5.9; pK<sub>a2</sub> 9

Hazard & Toxicity: LD<sub>50</sub> (rat, orl) 14000 mg/kg

Aldrich: S555-3

Fluka: 85970

Sigma: S9381

>>Derivative: Monoxime

CAS Registry Number: 6158-14-1

Molecular Formula: C<sub>4</sub>H<sub>6</sub>N<sub>2</sub>O<sub>2</sub>

Molecular Weight: 114.104

Accurate Mass: 114.042928

Percentage Composition: C 42.11%; H 5.30%; N 24.55%; O 28.04%

Melting Point: Mp 197 dec.°

>>Derivative: Dioxime

CAS Registry Number: 5615-79-2

Molecular Formula: C<sub>4</sub>H<sub>7</sub>N<sub>3</sub>O<sub>2</sub>

Molecular Weight: 129.118

Accurate Mass: 129.053827

Percentage Composition: C 37.21%; H 5.46%; N 32.54%; O 24.78%

Melting Point: Mp 207°

>>Derivative: N-Ac

CAS Registry Number: 3027-06-3

Molecular Formula: C<sub>6</sub>H<sub>7</sub>NO<sub>3</sub>

Molecular Weight: 141.126

Accurate Mass: 141.042594

Percentage Composition: C 51.06%; H 5.00%; N 9.92%; O 34.01%

Boiling Point: Bp<sub>9,5</sub> 167°

>>Derivative: N-Propanoyl

Synonym(s): 1-(1-Oxopropoxy)-2,5-pyrrolidinedione, 9Cl. N-(Propionyloxy)succinimide, 8Cl. Succinimido propionate

CAS Registry Number: 30364-55-7

Molecular Formula: C<sub>7</sub>H<sub>9</sub>NO<sub>4</sub>

Molecular Weight: 171.152

Accurate Mass: 171.053159

Percentage Composition: C 49.12%; H 5.30%; N 8.18%; O 37.39%

Use/Importance: Used for derivatisation of biogenic amines for hplc anal. with electrochem. detn.

Physical Description: Cryst. (EtOAc/hexane)

Melting Point: Mp 32-34°