



>>Entry Name: Suxamethonium(2+)

Synonym(s): 2,2'-(1,4-Dioxo-1,4-butanediyl)bis(oxy)bis[*N,N,N*-trimethyl]ethanaminium, 9Cl. Succinoylcholine. Scoline. Many other names

CAS Registry Number: 306-40-1

Related CAS Registry Numbers(s): 6101-15-1

$\text{Me}_3\text{N}^{(+)}\text{CH}_2\text{CH}_2\text{OCOCH}_2\text{CH}_2\text{COOCH}_2\text{CH}_2\text{N}^{(+)}\text{Me}_3$

Molecular Formula: $\text{C}_{14}\text{H}_{30}\text{N}_2\text{O}_4^{2(+)}$

Molecular Weight: 290.402

Accurate Mass: 290.220558

Percentage Composition: C 57.90%; H 10.41%; N 9.65%; O 22.04%

>>Derivative: Dibromide

Synonym(s): Suxamethonium bromide, BAN. Brevidil M

CAS Registry Number: 55-94-7

Molecular Formula: $\text{C}_{14}\text{H}_{30}\text{Br}_2\text{N}_2\text{O}_4$

Molecular Weight: 450.21

Accurate Mass: 448.09723

Percentage Composition: C 37.35%; H 6.72%; Br 35.50%; N 6.22%; O 14.22%

Biological Use/Importance: Skeletal muscle relaxant. Curarimimetic agent

Physical Description: Cryst.

Melting Point: Mp 225°

Rare Chemicals Library: S39850-0

>>Derivative: Dichloride

Synonym(s): Suxamethonium chloride, BAN, INN. Succinylcholine chloride, USAN. Sucostrin chloride. Quelicin. Sux-Cert. Anectine. Pantolax

CAS Registry Number: 71-27-2

Molecular Formula: $\text{C}_{14}\text{H}_{30}\text{Cl}_2\text{N}_2\text{O}_4$

Molecular Weight: 361.307

Accurate Mass: 360.158262

Percentage Composition: C 46.54%; H 8.37%; Cl 19.62%; N 7.75%; O 17.71%

Biological Use/Importance: Skeletal muscle relaxant

Physical Description: Cryst. + 2H₂O

Melting Point: Mp 156-163° (anhyd. ca. 190°)

Hazard & Toxicity: Systemic effects reported following intravenous administration. LD₅₀ (mus, ivn) 0.43 mg/kg

Fluka: 85980

>>Derivative: Diiodide

Synonym(s): *O,O*-Succinyldicholine iodide

CAS Registry Number: 541-19-5

Molecular Formula: $\text{C}_{14}\text{H}_{30}\text{I}_2\text{N}_2\text{O}_4$

Molecular Weight: 544.211

Accurate Mass: 544.029504

Percentage Composition: C 30.90%; H 5.56%; I 46.64%; N 5.15%; O 11.76%

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 250-255° (dec.)

Rare Chemicals Library: S39851-9

Sigma: S8376

References:

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Durant, N.N. *et al.*, *Br. J. Anaesth.*, 1982, **54**, 195, (*rev, pharmacol*)

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