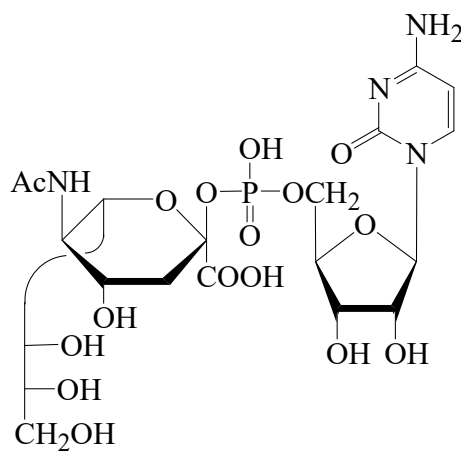




>>Entry Name: *N*-Acetyl- β -neuraminic acid 2-(hydrogen 5'-cytidylate)

Synonym(s): 5-(Acetylamino)-3,5-dideoxy-D-*glycero*- β -D-*galacto*-2-nonulopyranosonic acid 2-(hydrogen 5'-cytidylate), 9Cl. 5-Acetamido-3,5-dideoxy-D-*glycero*-D-*galacto*-nonulosonic acid 2-ester with 5'-cytidylic acid, 8Cl. Cytidine 5'-monophosphate *N*-acetylneuraminic acid. Cytidine 5'-monophosphosialate. CMP-NAN. CMP-Neu5Ac. CMP-Sialic acid



CAS Registry Number: 3063-71-6

Molecular Formula: C₂₀H₃₁N₄O₁₆P

Molecular Weight: 614.456

Accurate Mass: 614.147273

Percentage Composition: C 39.09%; H 5.08%; N 9.12%; O 41.66%; P 5.04%

Physical Description: Cryst. (as bis(triethylammonium) salt)

Optical Rotation: $[\alpha]_D^{20} +18$ (c, 1.9 in H₂O) (salt)

References:

- Warren, L. *et al.*, *J. Biol. Chem.*, 1962, **237**, 3527-3534, (*synth*)
Kean, E.L. *et al.*, *J. Biol. Chem.*, 1966, **241**, 5643-5650, (*purifn, props*)
Schauer, R. *et al.*, *Hoppe Seyler's Z. Physiol. Chem.*, 1972, **353**, 883-886, (*synth*)
Higa, H.H. *et al.*, *J. Biol. Chem.*, 1985, **260**, 8838-8848, (*synth, pmr*)
Simon, E.S. *et al.*, *Methods Enzymol.*, 1989, **179**, 275-287, (*synth, pmr, cmr*)
Thiem, J. *et al.*, *Annalen*, 1990, 1101-1105, (*synth, pmr*)
Auge, C. *et al.*, *Carbohydr. Res.*, 1990, **200**, 257-268, (*synth, pmr*)