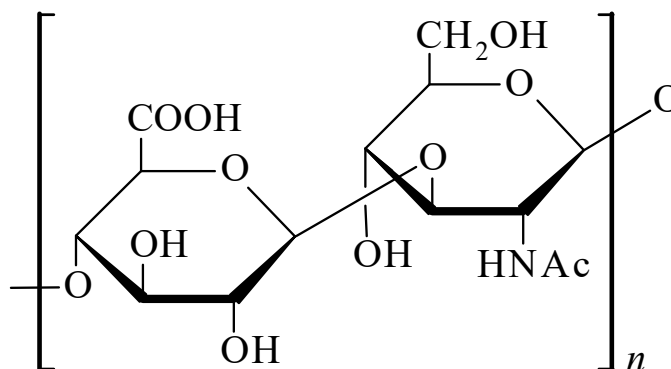




>>Entry Name: Hyaluronic acid, 9CI, BAN

Synonym(s): Hyaluronan. Fermathron



CAS Registry Number: 9004-61-9

Related CAS Registry Numbers(s): 31799-91-4

Molecular Formula: C₁₄H₂₁NO₁₁

Molecular Weight: 379.32

Accurate Mass: 379.111464

Percentage Composition: C 44.33%; H 5.58%; N 3.69%; O 46.40%

Biological Source: Obt. principally from synovial fluid, vitreous humor of the eye, umbilical tissue and cock's comb, also found in amniotic fluid, aorta, leucocytes, blood platelets, brain, articular cartilage, liver, plasma, prostate, skin, teeth and urine. Difficult to obtain in a pure state

Biological Use/Importance: Functions as a joint lubricant and shock absorber; used in the treatment of synovitis and osteoarthritis

Development Status: Approved for clinical use in the EU (1999)

Optical Rotation: $[\alpha]_D^{27} -68.2$ (c, 1.0 in H₂O)

Fluka: 53728

Sigma: H9390

>>Derivative: Na salt

Synonym(s): Hyaluronate sodium, USAN. Sodium hyaluronate. Amvisc. Healon. Hyalgan. Hyladerm. Pandermin

CAS Registry Number: 9067-32-7

Optical Rotation: $[\alpha]_D^{25} -74$ (c, 0.25 in H₂O). $[\alpha]_D -67$ (H₂O)

Fluka: 53745

Sigma: H5388

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