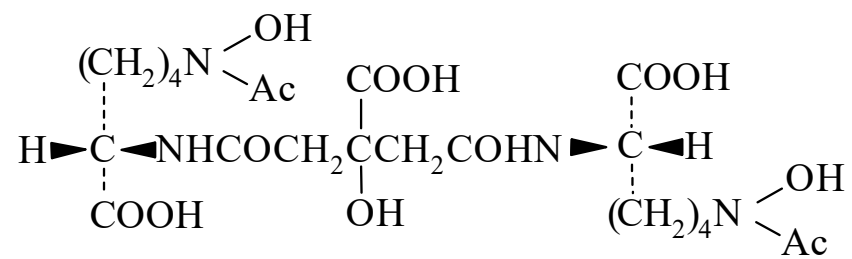




>>Entry Name: **Aerobactin**

Synonym(s): 3,12,21-Trihydroxy-2,10,14,22-tetraoxo-3,9,15,21-tetraazatricosane-8,12,16-tricarboxylic acid, 9Cl. $N^2,N^{2'}$ -(3-Carboxy-3-hydroxyglutaroyl)bis[N^6 -acetyl- N^6 -hydroxylysine], 8Cl



CAS Registry Number: 26198-65-2

Molecular Formula: C₂₂H₃₆N₄O₁₃

Molecular Weight: 564.545

Accurate Mass: 564.227891

Percentage Composition: C 46.81%; H 6.43%; N 9.92%; O 36.84%

Biological Source: Isol. from cultures of *Aerobacter aerogenes*, *E. coli* and *Klebsiella pneumoniae*

Use/Importance: Siderophore

Physical Description: Hygroscopic sl. off-white powder

Optical Rotation: $[\alpha]_D^{22} -10.8$ (c, 1.7 in H₂O)

UV: [neutral] $\lambda_{\max}$ 398 (ϵ 2170) (MeOH) (Berdy)

References:

Gibson, F. *et al.*, *Biochim. Biophys. Acta*, 1969, **192**, 175, (*isol*)

Maurer, P.J. *et al.*, *J.A.C.S.*, 1982, **104**, 3096, (*synth*)

Goh, C.J. *et al.*, *Bioorg. Chem.*, 1989, **17**, 13, (*biosynth*)