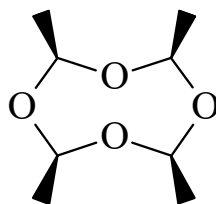




>>Entry Name: Metaldehyde, BSI, ISO, JMAF

Synonym(s): Helarion. Metacetaldehyde. Acetaldehyde homopolymer



tetramer

CAS Registry Number: 9002-91-9

Related CAS Registry Numbers(s): 37273-91-9

Molecular Formula: C₂H₄O

Molecular Weight: 44.053

Accurate Mass: 44.026215

Percentage Composition: C 54.53%; H 9.15%; O 36.32%

Minimum formula given

Source/Synthesis: Obt. from Acetaldehyde by polymerisation <0° in the presence of dry HCl or Py/HBr

Use/Importance: Molluscicide

Hazard & Toxicity: Flammable, fl. p. 36°. Symptoms of acute human oral tox. incl. vomiting, diarrhoea, fever, drowsiness, convulsions and coma. Death can occur. LD₅₀ (rat, orl) 227 mg/kg. Exp. reprod. effects

Aldrich: 29176-5

Fluka: 63990

>>Variant: Tetrameric-form

Synonym(s): 2,4,6,8-Tetramethyl-1,3,5,7-tetroxocane, 9Cl, 8Cl

CAS Registry Number: 108-62-3

Molecular Formula: C₂H₄O

Molecular Weight: 44.053

Accurate Mass: 44.026215

Percentage Composition: C 54.53%; H 9.15%; O 36.32%

Physical Description: Cryst. with menthol odour. Needles or prisms (EtOH)

Melting Point: Mp 247°

Boiling Point: Bp₁₅ 65°

Solubility: Sol. most org. solvs., hot CHCl₃, spar. sol. EtOH; insol. H₂O

Other Data: Sublimes at 112-115° with melting. Treatment with dil. H₂SO₄ or heating in a sealed tube causes depolymerisation to acetaldehyde

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