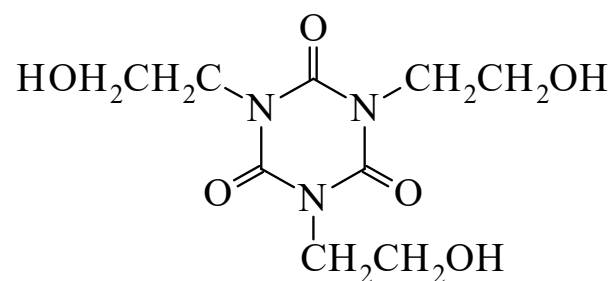




>>Entry Name: 1,3,5-Tris(2-hydroxyethyl)-1,3,5-triazine-2,4,6(1*H*,3*H*,5*H*)-trione, 9CI

Synonym(s): Tris(2-hydroxyethyl) isocyanuric acid



CAS Registry Number: 839-90-7

Molecular Formula: C₉H₁₅N₃O₆

Molecular Weight: 261.234

Accurate Mass: 261.096087

Percentage Composition: C 41.38%; H 5.79%; N 16.09%; O 36.75%

Use/Importance: Monomer used in modified alkyd resins, polyesters, polyamide-imides, etc.

Physical Description: Cryst.

Melting Point: Mp 135-136°

Aldrich: 30900-1

>>Derivative: Triester with 3-(3,5-di-*tert*-butyl-4-hydroxyphenyl)propanoic acid

Synonym(s): Irganox 3125

CAS Registry Number: 34137-09-2

Molecular Formula: C₆₀H₈₇N₃O₁₂

Molecular Weight: 1042.36

Accurate Mass: 1041.628977

Percentage Composition: C 69.14%; H 8.41%; N 4.03%; O 18.42%

Use/Importance: Antioxidant for polymers

>>Derivative: Tri-2-propenoyl

CAS Registry Number: 40220-08-4

Molecular Formula: C₁₈H₂₁N₃O₉

Molecular Weight: 423.379

Accurate Mass: 423.127782

Percentage Composition: C 51.06%; H 5.00%; N 9.92%; O 34.01%

Use/Importance: Cross-linking agent for polymers

References:

Sayigh, A.A., *J.C.S.*, 1961, 3148, (*synth, ir*)

Cummins, R.M., *J.O.C.*, 1963, **28**, 85, (*synth*)

Japan. Pat., 1973, 26 024; *CA*, **79**, 115640g, (*deriv, synth, use*)

Japan. Pat., 1977, 77 128 387; *CA*, **88**, 89720x, (*tri-2-propenoyl, synth, use*)

Dubosclard-Gottardi, C. *et al.*, *Tetrahedron*, 1995, **51**, 2561-2572, (*tri-2-propenoyl, synth, ir, pmr, cmr*)