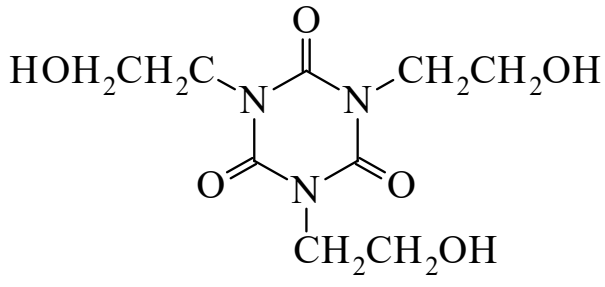
>>**Entry Name: 1,3,5-Tris(2-hydroxyethyl)-1,3,5-triazine-2,4,6(1*H*,3*H*,5*H*)-trione,** 9CI
Synonym(s): Tris(2-hydroxyethyl) isocyanuric acid



CAS Registry Number: 839-90-7

Molecular Formula: $C_9H_{15}N_3O_6$
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: $C_{60}H_{87}N_3O_{12}$
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: $C_{18}H_{21}N_3O_9$
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)*

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