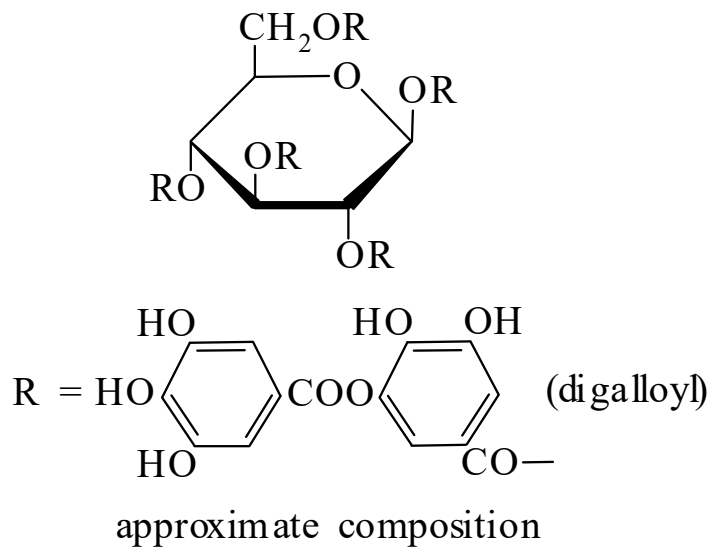
>>**Entry Name: Tannin,** 9CI, 8CI

ENTRY UNDER REVIEW

Synonym(s): Tannic acid. Gallotannic acid. Gallotannin. Chinese tannin. Glycerite. FEMA 3042



approximate composition

CAS Registry Number: 1401-55-4

glucose. There are also some trigalloyl units. See also individual entries for separately characterised tannin components.

Biological Source: A major constit. of galls of many spp. of oak (e.g. *Quercus lusitanica*), the leaves of Stagshorn (*Rhus typhina*) and pods of tara (*Caesalpinia spinosa*)

Use/Importance: Used as a mordant in dyeing, ink manuf., tanning, clarifying beer and wine and photography and as a coagulant in rubber manuf. Can be used as an astringent. Used as 3% aq. soln. for gravimetric detn. of Nb, Ta, Ti, U, W; separation of Ta and Nb

Physical Description: Yellowish powder

Melting Point: Mp 210-215 dec.°

Optical Rotation: $[\alpha]_D^{20}$+12 → +18.4 (c, 2 in Me_2CO) (from Chinese galls, Sicilian sumach or Stagshorn sumach). $[\alpha]_D^{20}$+21.7 → +23.2 (c, 2 in Me_2CO) (from Turkish galls)

Solubility: Sol. H_2O, EtOH, Me_2CO; sl. sol. Et_2O

Other Data: Forms precipitates with metal salts, alkaloids, albumen and gelatin

Hazard & Toxicity: Fl. p. 199° (oc), autoignition temp. 527°

Aldrich: 40304-0

Sigma: T0125

References:

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