



Percentage Composition: C 58.93%; H 5.39%; O 35.68%
Biological Source: Constit. of leaves of *Aloe vera*
Physical Description: Amorph. yellowish solid
Optical Rotation: $[\alpha]_D^{25} -0.7$ (c, 0.1 in MeOH)
UV: [neutral] $\lambda_{\max}$ 204 (log ϵ 4.4); 221 (log ϵ 4.35); 294 (log ϵ 4.09); 345 (log ϵ 3.82) (MeOH)

>>**Derivative:** 1"-Deoxy, 6-hydroxy, 8-*O*- β -D-glucopyranoside
Synonym(s): Cascaroside F

CAS Registry Number: 164322-83-2

Molecular Formula: C₂₇H₃₂O₁₄
Molecular Weight: 580.541
Accurate Mass: 580.17921
Percentage Composition: C 55.86%; H 5.56%; O 38.58%
Biological Source: Constit. of cascara sagrada *Rhamnus purshiana* bark
Melting Point: Mp 176-178°
Optical Rotation: $[\alpha]_D^{25} -69.5$ (c, 0.1 in MeOH)

>>**Variant:** (10*S*)-form
Synonym(s): Aloin A

CAS Registry Number: 1415-73-2

Molecular Formula: C₂₁H₂₂O₉
Molecular Weight: 418.399
Accurate Mass: 418.126385
Percentage Composition: C 60.28%; H 5.30%; O 34.42%
Physical Description: Yellow needles (EtOH)
Melting Point: Mp 148° (block)
Optical Rotation: $[\alpha]_D^{30} +10.2$ (c, 0.5 in MeOH)
Solubility: Sol. H₂O
Other Data: Positive CD at 295 nm. Pmr δ 5.13 (C-1')
Hazard & Toxicity: LD₅₀ (mus, ivn) 200 mg/kg

Sigma: B6906

>>**Derivative:** 8-*O*- β -D-Glucopyranoside
Synonym(s): Cascaroside A

CAS Registry Number: 53823-08-8

Molecular Formula: C₂₇H₃₂O₁₄
Molecular Weight: 580.541
Accurate Mass: 580.17921
Percentage Composition: C 55.86%; H 5.56%; O 38.58%
Biological Source: Constit. of *Rhamnus purshiana* (Cascara sagrada) bark
Physical Description: Cryst. + 2H₂O
Melting Point: Mp 184-187°
Optical Rotation: $[\alpha]_D^{30} +36.8$ (MeOH)
Other Data: Cascarosides A and B are a pair of 10-epimers corresponding to Aloins A and B but the configurational correspondence of Cascaroside A to Aloin A is not established, i.e. it could be (10*S*-)

>>**Derivative:** 1"-*O*- α -L-Rhamnopyranoside
Synonym(s): Aloinoside A

CAS Registry Number: 56645-88-6

Molecular Formula: C₂₇H₃₂O₁₃
Molecular Weight: 564.542
Accurate Mass: 564.184295
Percentage Composition: C 57.44%; H 5.71%; O 36.84%
Biological Source: Constit. of *Aloe ferox* and other *Aloe* spp.
UV: [neutral] $\lambda_{\max}$ 236 (ϵ 22400) (MeOH) (Derep)