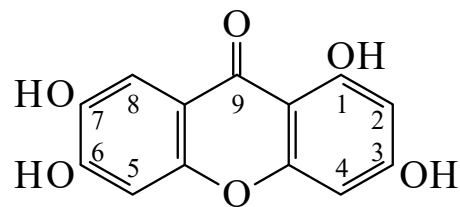




>>Entry Name: 1,3,6,7-Tetrahydroxyxanthone

Synonym(s): 1,3,6,7-Tetrahydroxy-9*H*-xanthen-9-one, 9Cl. **Mangiferitin**. Norathyriol



CAS Registry Number: 3542-72-1

Molecular Formula: C<sub>13</sub>H<sub>8</sub>O<sub>6</sub>

Molecular Weight: 260.203

Accurate Mass: 260.03209

Percentage Composition: C 60.01%; H 3.10%; O 36.89%

Biological Source: Constit. of *Chlorophora tinctoria*, *Symphonia globulifera* and *Garcinia* spp. Also from *Athyrium mesosorum* and *Maclura pomiferum*

Physical Description: Yellow-brown needles

Melting Point: Mp 270 dec.° (323°)

>>Derivative: 6-*O*-β-D-Glucopyranoside

Synonym(s): Tripteroside

CAS Registry Number: 82855-00-3

Molecular Formula: C<sub>19</sub>H<sub>18</sub>O<sub>11</sub>

Molecular Weight: 422.345

Accurate Mass: 422.084915

Percentage Composition: C 54.03%; H 4.30%; O 41.67%

Biological Source: Isol. from *Tripterospermum taiwanense*

Physical Description: Pale yellow needles (MeOH)

Melting Point: Mp 263-265°

>>Derivative: 1-*O*-(6-Deoxy-β-D-glucopyranoside)

Synonym(s): **Gymnocarposide**. Norathyriol 1-quinovoside

CAS Registry Number: 104669-03-6

Molecular Formula: C<sub>19</sub>H<sub>18</sub>O<sub>10</sub>

Molecular Weight: 406.345

Accurate Mass: 406.09

Percentage Composition: C 56.16%; H 4.46%; O 39.37%

Biological Source: Isol. from fern *Gymnocarpium robertianum*

Melting Point: Mp 263-265°

Optical Rotation: [ $\alpha$ ]<sub>D</sub> -73

>>Derivative: 3-Me ether

Synonym(s): 1,6,7-Trihydroxy-3-methoxyxanthone. **Athyriol**

CAS Registry Number: 28283-84-3

Molecular Formula: C<sub>14</sub>H<sub>10</sub>O<sub>6</sub>

Molecular Weight: 274.229

Accurate Mass: 274.04774

Percentage Composition: C 61.32%; H 3.68%; O 35.01%

Biological Source: Constit. of the leaves of *Athyrium mesosorum*

Physical Description: Yellow-brown needles

Melting Point: Mp 300 dec.°