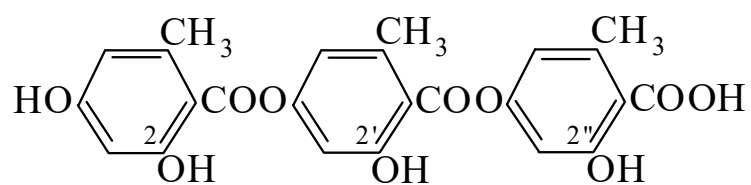




>>Entry Name: Gyrophoric acid

Synonym(s): Triorsellinic acid



CAS Registry Number: 548-89-0

Molecular Formula: C<sub>24</sub>H<sub>20</sub>O<sub>10</sub>

Molecular Weight: 468.416

Accurate Mass: 468.10565

Percentage Composition: C 61.54%; H 4.30%; O 34.16%

Biological Source: Lichen acid isol. from many lichens, e.g. *Gyrophora*, *Parmelia*, *Lecidea*, *Pertusaria* and *Acarospora* spp.

Physical Description: Cryst. (Me<sub>2</sub>CO)

Melting Point: Mp 220 dec.°

Solubility: BERDY SOL: Sol. MeOH, bases, C<sub>6</sub>H<sub>6</sub>, Et<sub>2</sub>O; fairly sol. acids; poorly sol. H<sub>2</sub>O

>>Derivative: Me ester

Synonym(s): Methyl gyrophorate

CAS Registry Number: 22474-42-6

Molecular Formula: C<sub>25</sub>H<sub>22</sub>O<sub>10</sub>

Molecular Weight: 482.443

Accurate Mass: 482.1213

Percentage Composition: C 62.24%; H 4.60%; O 33.16%

Biological Source: Lichen acid

Physical Description: Needles (C<sub>6</sub>H<sub>6</sub>/Me<sub>2</sub>CO)

Melting Point: Mp 280-285° (softens from 224°). Mp 312-314 dec.°

>>Derivative: Tetra-Ac

Melting Point: Mp 228°

>>Derivative: 2-Me ether

Synonym(s): Umbilicatic acid

CAS Registry Number: 30666-92-3

Molecular Formula: C<sub>25</sub>H<sub>22</sub>O<sub>10</sub>

Molecular Weight: 482.443

Accurate Mass: 482.1213

Percentage Composition: C 62.24%; H 4.60%; O 33.16%

Biological Source: Lichen acid. Isol. from *Gyrophora* spp.

Physical Description: Platelets (EtOH)

Melting Point: Mp 203° (185-189°)

>>Derivative: 4-Me ether

Synonym(s): 4-*O*-Methylgyrophoric acid

CAS Registry Number: 23437-51-6

Molecular Formula: C<sub>25</sub>H<sub>22</sub>O<sub>10</sub>

Molecular Weight: 482.443

Accurate Mass: 482.1213

Percentage Composition: C 62.24%; H 4.60%; O 33.16%

Biological Source: Lichen acid

Physical Description: Cryst. (Me<sub>2</sub>CO)

Melting Point: Mp 296-298 dec.° (yellows above 215°)