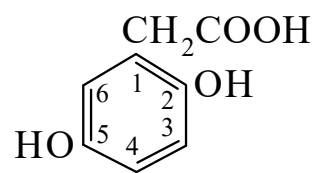




>>Entry Name: (2,5-Dihydroxyphenyl)acetic acid

Synonym(s): 2,5-Dihydroxybenzeneacetic acid, 9Cl. 2,5-Dihydroxy- α -toluic acid. Homogentisic acid. Alcapton



CAS Registry Number: 451-13-8

Type of Compound Code(s): VG0050

Molecular Formula: C₈H₈O₄

Molecular Weight: 168.149

Accurate Mass: 168.04226

Percentage Composition: C 57.14%; H 4.80%; O 38.06%

Biological Source: Occurs in microorganisms (*Penicillium*, *Aspergillus* spp.) and urine of alcaptonurics. Rare or doubtful occurrence in higher plants

Use/Importance: Intermed. in phenylalanine and tyrosine metab.

Physical Description: Prisms + 1H₂O (H₂O)

Melting Point: Mp 152-154° (anhyd.)

Aldrich: 16868-8

Fluka: 53560

Sigma: H0751

>>Derivative: Me ester

CAS Registry Number: 60508-85-2

Type of Compound Code(s): VG0050

Molecular Formula: C₉H₁₀O₄

Molecular Weight: 182.176

Accurate Mass: 182.05791

Percentage Composition: C 59.34%; H 5.53%; O 35.13%

Biological Source: Isol. from seeds of *Entada phaseoloides*

Melting Point: Mp 116-117°

UV: [neutral] $\lambda_{\max}$ 223 (ϵ 12600); 296 (ϵ 10000) (MeOH) (Berdy)

>>Derivative: Di-Ac

CAS Registry Number: 90447-15-7

Molecular Formula: C₁₂H₁₂O₆

Molecular Weight: 252.223

Accurate Mass: 252.06339

Percentage Composition: C 57.14%; H 4.80%; O 38.06%

Melting Point: Mp 119-121°

>>Derivative: Di-Me ether

Synonym(s): 2,5-Dimethoxybenzeneacetic acid

CAS Registry Number: 1758-25-4

Molecular Formula: C₁₀H₁₂O₄

Molecular Weight: 196.202

Accurate Mass: 196.07356

Percentage Composition: C 61.22%; H 6.16%; O 32.62%

Melting Point: Mp 124.5°

Aldrich: D13580-1

>>Derivative: Di-Me ether, Me ester

CAS Registry Number: 6202-39-7

Molecular Formula: C₁₁H₁₄O₄

Molecular Weight: 210.229

Accurate Mass: 210.08921

Percentage Composition: C 62.85%; H 6.71%; O 30.44%

Melting Point: Mp 45°