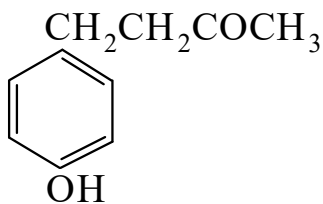




>>Entry Name: 4-(4-Hydroxyphenyl)-2-butanone, 9CI

ENTRY UNDER REVIEW

Synonym(s): Raspberry ketone. Rheosmine. Frambinone. FEMA 2588



CAS Registry Number: 5471-51-2

Molecular Formula: C₁₀H₁₂O₂

Molecular Weight: 164.204

Accurate Mass: 164.08373

Percentage Composition: C 73.15%; H 7.37%; O 19.49%

Biological Source: Isol. from raspberries (*Rubus idaeus*), rhubarb (*Rheum* spp.), European cranberry (*Vaccinium oxycoccus*), blackberry, loganberry and redcurrants

Use/Importance: Important flavour ingredient

Physical Description: Needles (H₂O) with raspberry odour

Melting Point: Mp 82.5°

Hazard & Toxicity: LD₅₀ (rat, orl) 1320 mg/kg

Aldrich: 17851-9

Fluka: 56110

>>Derivative: Oxime

CAS Registry Number: 58484-75-6

Molecular Formula: C₁₀H₁₃NO₂

Molecular Weight: 179.218

Accurate Mass: 179.094629

Percentage Composition: C 67.02%; H 7.31%; N 7.82%; O 17.85%

Physical Description: Cryst. (C₆H₆)

Melting Point: Mp 97.5-100°

>>Derivative: 2,4-Dinitrophenylhydrazone

Physical Description: Red needles (EtOH)

Melting Point: Mp 145°

>>Derivative: Ac

Synonym(s): Cuelure. FEMA 3652

CAS Registry Number: 3572-06-3

Molecular Formula: C₁₂H₁₄O₃

Molecular Weight: 206.241

Accurate Mass: 206.094295

Percentage Composition: C 69.89%; H 6.84%; O 23.27%

Biological Use/Importance: Insect pheromone. Fruit fly attractant

Physical Description: Liq. with sweet raspberry, fruity odour

Boiling Point: Bp_{0.06} 107.5-109.5°

Refractive Index: n_D²⁰ 1.5088

Hazard & Toxicity: LD₅₀ (rat, orl) 3038 mg/kg

Aldrich: W36520-3

>>Derivative: O-β-D-Glucopyranoside

CAS Registry Number: 38963-94-9

Molecular Formula: C₁₆H₂₂O₇

Molecular Weight: 326.346

Accurate Mass: 326.136555

Percentage Composition: C 58.89%; H 6.79%; O 34.32%

Biological Source: Constit. of *Artemisia santolinifolia*, *Pinus* spp., *Rheum* spp. and raspberries

Physical Description: Prisms

Melting Point: Mp 110-112°

Optical Rotation: [α]