



>>Entry Name: 3-(2-Naphthalenyl)-2-propenoic acid, 9CI

Synonym(s): 3-β-Naphthylacrylic acid

CAS Registry Number: 51557-26-7

Molecular Formula: C₁₃H₁₀O₂

Molecular Weight: 198.221

Accurate Mass: 198.06808

Percentage Composition: C 78.77%; H 5.08%; O 16.14%

>>Variant: (E)-form

CAS Registry Number: 49711-14-0

Molecular Formula: C₁₃H₁₀O₂

Molecular Weight: 198.221

Accurate Mass: 198.06808

Percentage Composition: C 78.77%; H 5.08%; O 16.14%

Physical Description: Needles

Melting Point: Mp 220° (210°, 203°, 196°)

>>Derivative: Et ester

CAS Registry Number: 19661-27-9

Molecular Formula: C₁₅H₁₄O₂

Molecular Weight: 226.274

Accurate Mass: 226.09938

Percentage Composition: C 79.62%; H 6.24%; O 14.14%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 68-69°

>>Variant: (Z)-form

Molecular Formula: C₁₃H₁₀O₂

Molecular Weight: 198.221

Accurate Mass: 198.06808

Percentage Composition: C 78.77%; H 5.08%; O 16.14%

Physical Description: Cryst. (CCl₄)

Melting Point: Mp 134°

References:

Jensen, A.I. *et al.*, *Acta Chem. Scand.*, 1952, **6**, 180, (*uv, ir, ester*)

Malzieu, R., *Bull. Soc. Chim. Fr.*, 1976, 879, (*ester*)

Tanaka, H. *et al.*, *Bull. Chem. Soc. Jpn.*, 1979, **52**, 801