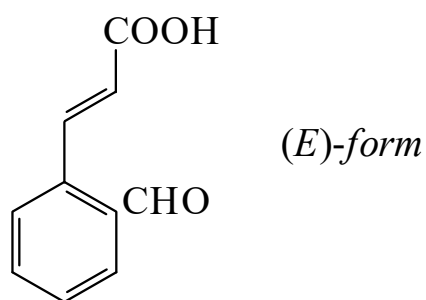




>>Entry Name: 3-(2-Formylphenyl)-2-propenoic acid, 9CI

Synonym(s): *o*-Formylcinnamic acid



CAS Registry Number: 28873-89-4

Molecular Formula: C₁₀H₈O₃

Molecular Weight: 176.171

Accurate Mass: 176.047345

Percentage Composition: C 68.18%; H 4.58%; O 27.25%

General Statement: The compd. prepd. in a 1949 reference later attributed to 1-Hydroxy-1*H*-indene-2-carboxylic acid [FQQ84-M](#). In general, data on this compd. appears inconclusive

>>Variant: (*E*)-form

CAS Registry Number: 130036-17-8

Molecular Formula: C₁₀H₈O₃

Molecular Weight: 176.171

Accurate Mass: 176.047345

Percentage Composition: C 68.18%; H 4.58%; O 27.25%

>>Derivative: Me ester

CAS Registry Number: 132316-45-1

Molecular Formula: C₁₁H₁₀O₃

Molecular Weight: 190.198

Accurate Mass: 190.062995

Percentage Composition: C 69.46%; H 5.30%; O 25.24%

Melting Point: Mp 82° (52-54°)

>>Variant: (*Z*)-form

Molecular Formula: C₁₀H₈O₃

Molecular Weight: 176.171

Accurate Mass: 176.047345

Percentage Composition: C 68.18%; H 4.58%; O 27.25%

Physical Description: Needles (H₂O)

Melting Point: Mp 124-125°

Other Data: A tautomeric cyclic lactol form is also likely

References:

- Bernatek, E. *et al.*, *Acta Chem. Scand.*, 1962, **16**, 2421, (*synth*)
Saito, I. *et al.*, *Bull. Chem. Soc. Jpn.*, 1975, **48**, 2865, (*Me ester*)