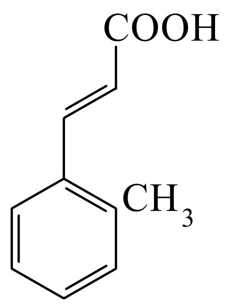
>>**Entry Name: 3-(2-Methylphenyl)-2-propenoic acid,** 9CI
Synonym(s): *o*-Methylcinnamic acid, 8CI. 3-*o*-Tolylacrylic acid



(*E*)-*form*

CAS Registry Number: 2373-76-4
Related CAS Registry Numbers(s): 16366-23-7 83716-65-8

Molecular Formula: $C_{10}H_{10}O_2$
Molecular Weight: 162.188
Accurate Mass: 162.06808
Percentage Composition: C 74.06%; H 6.21%; O 19.73%
pKa Value: pK_a 4.5

Aldrich: 43310-1

>>**Variant:** (*E*)-form

CAS Registry Number: 939-57-1
Molecular Formula: $C_{10}H_{10}O_2$
Molecular Weight: 162.188
Accurate Mass: 162.06808
Percentage Composition: C 74.06%; H 6.21%; O 19.73%
Physical Description: Cryst. (EtOH or C_6H_6)
Melting Point: Mp 175-176°

>>**Derivative:** Et ester

CAS Registry Number: 24393-48-4
Molecular Formula: $C_{12}H_{14}O_2$
Molecular Weight: 190.241
Accurate Mass: 190.09938
Percentage Composition: C 75.76%; H 7.42%; O 16.82%
Physical Description: Oil
Boiling Point: $Bp_{2.2}$ 114-117°. $Bp_{1.2}$ 148°

>>**Derivative:** Amide
Synonym(s): 3-(2-Methylphenyl)-2-propenamide. U 77863. Antibiotic U 77863

Molecular Formula: $C_{10}H_{11}NO$
Molecular Weight: 161.203
Accurate Mass: 161.084064
Percentage Composition: C 74.51%; H 6.88%; N 8.69%; O 9.93%
Biological Source: Prod. by *Streptomyces griseoluteus*
Biological Use/Importance: Exhibits antitumour props.
Physical Description: Cryst. (MeOH)
Melting Point: Mp 151-153°
UV: [neutral] λ_{max} 208 (ε 17300); 220 (ε 14900); 225 (sh) (ε 12000); 276 (ε 16500) (MeOH) (Derep) [neutral] λ_{max} 208 (ε 17320); 220 (ε 14900); 276 (ε 16540) (MeOH) (Berdy)

>>**Variant:** (*Z*)-form

CAS Registry Number: 41397-71-1
Molecular Formula: $C_{10}H_{10}O_2$
Molecular Weight: 162.188
Accurate Mass: 162.06808
Percentage Composition: C 74.06%; H 6.21%; O 19.73%
Melting Point: Mp 91-92° (89-90°)

References: