



>>Entry Name: **3-(4-Nitrophenyl)-2-propenoic acid**, 9Cl  
Synonym(s): *p*-Nitrocinnamic acid, 8Cl. 3-*p*-Nitrophenylacrylic acid

CAS Registry Number: 619-89-6  
Related CAS Registry Numbers(s): 18166-67-1 19310-31-7 22440-58-0

Molecular Formula: C<sub>9</sub>H<sub>7</sub>NO<sub>4</sub>  
Molecular Weight: 193.159  
Accurate Mass: 193.037509  
Percentage Composition: C 55.96%; H 3.65%; N 7.25%; O 33.13%

Aldrich: N1642-8  
Sigma: N1756

>>Variant: (*E*)-form

CAS Registry Number: 882-06-4  
Molecular Formula: C<sub>9</sub>H<sub>7</sub>NO<sub>4</sub>  
Molecular Weight: 193.159  
Accurate Mass: 193.037509  
Percentage Composition: C 55.96%; H 3.65%; N 7.25%; O 33.13%  
Physical Description: Prisms (EtOH)  
Melting Point: Mp 286°  
pKa Value: pK<sub>a</sub> 4.05 (25°)  
Fluka: 74140

>>Derivative: Me ester

CAS Registry Number: 637-57-0  
Molecular Formula: C<sub>10</sub>H<sub>9</sub>NO<sub>4</sub>  
Molecular Weight: 207.185  
Accurate Mass: 207.053159  
Percentage Composition: C 57.97%; H 4.38%; N 6.76%; O 30.89%  
Physical Description: Needles (EtOH)  
Melting Point: Mp 161°  
Boiling Point: Bp 281-286°

>>Derivative: Et ester

CAS Registry Number: 24393-61-1  
Extra CAS Registry Numbers(s): 953-26-4  
Molecular Formula: C<sub>11</sub>H<sub>11</sub>NO<sub>4</sub>  
Molecular Weight: 221.212  
Accurate Mass: 221.068809  
Percentage Composition: C 59.73%; H 5.01%; N 6.33%; O 28.93%  
Physical Description: Plates (AcOH)  
Melting Point: Mp 141-142°

>>Derivative: Chloride

CAS Registry Number: 61921-33-3  
Molecular Formula: C<sub>9</sub>H<sub>6</sub>ClNO<sub>3</sub>  
Molecular Weight: 211.604  
Accurate Mass: 211.003621  
Percentage Composition: C 51.09%; H 2.86%; Cl 16.75%; N 6.62%; O 22.68%  
Melting Point: Mp 124-125°  
Boiling Point: Bp 205-210°  
Aldrich: 36475-4

>>Derivative: Amide