



CAS Registry Number: 937-41-7
Molecular Formula: C₉H₈O₂
Molecular Weight: 148.161
Accurate Mass: 148.05243
Percentage Composition: C 72.96%; H 5.44%; O 21.60%
Physical Description: Liq.
Boiling Point: Bp₂₀ 120°

>>**Derivative:** Chloride
Synonym(s): 2-Propenoyl chloride, 9Cl. Acryloyl chloride

CAS Registry Number: 814-68-6
Molecular Formula: C₃H₃ClO
Molecular Weight: 90.509
Accurate Mass: 89.987242
Percentage Composition: C 39.81%; H 3.34%; Cl 39.17%; O 17.68%
Physical Description: Liq.
Boiling Point: Bp 75°
Solubility: Sol. CHCl₃
Density: d²⁰ 1.1136
Refractive Index: n_D²⁰ 1.4343
Other Data: Vp 7 mmHg (25°). Dec. H₂O and EtOH. Q/e values for copolym., Q 1.82, e +1.92

Aldrich: A2410-9
Fluka: 1780

>>**Derivative:** Amide
Synonym(s): Acrylamide. 2-Propenamide, 9Cl

CAS Registry Number: 79-06-1

Molecular Formula: C₃H₅NO
Molecular Weight: 71.079
Accurate Mass: 71.037114
Percentage Composition: C 50.69%; H 7.09%; N 19.71%; O 22.51%
Biological Source: Constit. of *Pongamia glabra* leaf galls. Manuf. by hydration of the nitrile
Use/Importance: Undergoes free radical polym. in aq. soln. to give polyacrylamide. Copolym. easily with many vinyl monomers
Physical Description: Leaflets (C₆H₆)
Melting Point: Mp 85°
Boiling Point: Bp 192.6°
Solubility: Sol. H₂O, EtOH, MeOH, Et₂O, Me₂CO, DMF, DMSO
Other Data: Polym. on heating or under uv light. Aq. solns. are stabilised by O₂ and Cu²⁽⁺⁾ ions. Q/e values for copolym., Q 0.23, e +0.54
Hazard & Toxicity: Polym. can be violent at Mp. Symptoms of exposure (dermal, inhalation or ingestion) include cold sweating hands and peripheral neuropathies with numbness, paraesthesias and weakness. Dermal absorption can also cause erythema and peeling of the palms. Possible human carcinogen. LD₅₀ (rat, orl) 124 mg/kg. LD₅₀ (rat, skn) 400 mg/kg. Exp. carcinogen and reprod. effects. Adverse exp. CNS effects. MEL: long-term 0.3 mg m⁻³ (Sk)

Aldrich: 14866-0
Fluka: 1698
Sigma: A2575

>>**Derivative:** Methanamide
Synonym(s): N-Methyl-2-propenamide

CAS Registry Number: 1187-59-3
Molecular Formula: C₄H₇NO
Molecular Weight: 85.105
Accurate Mass: 85.052764
Percentage Composition: C 56.45%; H 8.29%; N 16.46%; O 18.80%
Boiling Point: Bp₃ 86-87°
Density: d₂₀ 0.9872
Refractive Index: n_D²⁰ 1.4722