



**Boiling Point:** Bp<sub>20</sub> 80-81°  
**Density:** d<sub>25</sub> 0.962  
**Refractive Index:** n<sub>D</sub><sup>20</sup> 1.4730

**Aldrich:** 27413-5  
**Fluka:** 38873  
**Sigma:** D6026

>>**Derivative:** Diethylamide

**Synonym(s):** *N,N*-Diethyl-2-propenoamide, 9Cl. *N,N*-Diethylacrylamide, 8Cl

**CAS Registry Number:** 2675-94-7  
**Molecular Formula:** C<sub>7</sub>H<sub>13</sub>NO  
**Molecular Weight:** 127.186  
**Accurate Mass:** 127.099714  
**Percentage Composition:** C 66.11%; H 10.30%; N 11.01%; O 12.58%  
**Physical Description:** Oil  
**Boiling Point:** Bp<sub>10</sub> 85-86°  
**Density:** d<sub>4</sub><sup>20</sup> 0.93  
**Refractive Index:** n<sub>D</sub><sup>20</sup> 1.4675

>>**Derivative:** Isopropylamide

**Synonym(s):** *N*-(1-Methylethyl)-2-propenamide

**CAS Registry Number:** 2210-25-5  
**Molecular Formula:** C<sub>6</sub>H<sub>11</sub>NO  
**Molecular Weight:** 113.159  
**Accurate Mass:** 113.084064  
**Percentage Composition:** C 63.69%; H 9.80%; N 12.38%; O 14.14%  
**Melting Point:** Mp 64-66°  
**Boiling Point:** Bp<sub>15</sub> 110-115°  
**Aldrich:** 41532-4  
**Other:** PB 109120

>>**Derivative:** *tert*-Butylamide

**Synonym(s):** *N-tert*-Butylacrylamide

**CAS Registry Number:** 107-58-4  
**Molecular Formula:** C<sub>7</sub>H<sub>13</sub>NO  
**Molecular Weight:** 127.186  
**Accurate Mass:** 127.099714  
**Percentage Composition:** C 66.11%; H 10.30%; N 11.01%; O 12.58%  
**Use/Importance:** Undergoes thermal and radiation-induced polym.  
**Physical Description:** Cryst. (C<sub>6</sub>H<sub>6</sub>)  
**Melting Point:** Mp 128-129° (127.3°)  
**Solubility:** Spar. sol. H<sub>2</sub>O; insol. petrol  
**Other Data:** Subl. at r.t.

>>**Derivative:** *N*-Octadecylamide

**CAS Registry Number:** 1506-54-3  
**Molecular Formula:** C<sub>21</sub>H<sub>41</sub>NO  
**Molecular Weight:** 323.561  
**Accurate Mass:** 323.318814  
**Percentage Composition:** C 77.95%; H 12.77%; N 4.33%; O 4.94%  
**Melting Point:** Mp 69°  
**Other Data:** Q/e values for copolym., Q 0.66, e +1.64

>>**Derivative:** Anilide

**Synonym(s):** *N*-Phenyl-2-propenamide. Acrylanilide

**CAS Registry Number:** 2210-24-4  
**Molecular Formula:** C<sub>9</sub>H<sub>9</sub>NO  
**Molecular Weight:** 147.176  
**Accurate Mass:** 147.068414  
**Percentage Composition:** C 73.45%; H 6.16%; N 9.52%; O 10.87%  
**Melting Point:** Mp 101-102°  
**Other:** PB P08240