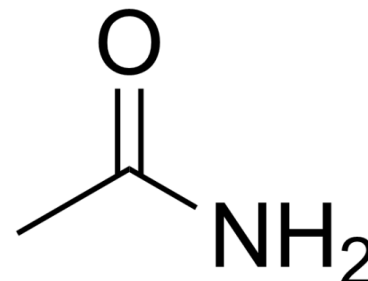


## Data Sheet

<b>Product Name:</b>	Acetamide
<b>Cat. No.:</b>	CS-0015934
<b>CAS No.:</b>	60-35-5
<b>Molecular Formula:</b>	C <sub>2</sub> H <sub>5</sub> NO
<b>Molecular Weight:</b>	59.07
<b>Target:</b>	Biochemical Assay Reagents
<b>Pathway:</b>	Others
<b>Solubility:</b>	H <sub>2</sub> O : 50 mg/mL (ultrasonic)



### BIOLOGICAL ACTIVITY:

Acetamide is used as an intermediate in the synthesis of methylamine, thioacetamide, and insecticides, and as a plasticizer in leather, cloth and coatings. Acetamide has carcinogenicity. Acetamide derivatives may have antioxidant activity and potential anti-inflammatory activity. Acetamide holds promise for research in the fields of anti-inflammatory and cancer studies<sup>[1][2][3]</sup>. *In Vivo*: Acetamide (250, 1000, 2000 mg/kg for acute exposure; p.o., once daily for 2 days; 1000 mg/kg for subchronic assay, p.o., once daily for 28 days) does not induce micronuclei in rats and mice and does not increase mutations in the rat Pig-a gene mutation assay<sup>[2]</sup>.

### References:

[1]. Acetamide. IARC Monogr Eval Carcinog Risks Hum. 1999;71 Pt 3:1211-21.

[2]. Moore MM, et al. The food contaminant acetamide is not an in vivo clastogen, aneugen, or mutagen in rodent hematopoietic tissue. Regul Toxicol Pharmacol. 2019 Nov;108:104451.

[3]. Autore G, et al. Acetamide derivatives with antioxidant activity and potential anti-inflammatory activity. Molecules. 2010 Mar 23;15(3):2028-38.

### CAIndexNames:

Acetamide

### SMILES:

CC(N)=O

**Caution: Product has not been fully validated for medical applications. For research use only.**

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