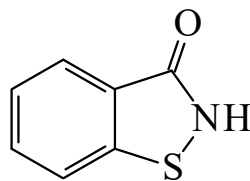




>>Entry Name: **1,2-Benzisothiazol-3(2H)-one**, 9CI

Synonym(s): 1,2-Benzisothiazolinone. 2-Thiobenzimide. Proxel



CAS Registry Number: 2634-33-5

Molecular Formula: C₇H₅NOS

Molecular Weight: 151.189

Accurate Mass: 151.009184

Percentage Composition: C 55.61%; H 3.33%; N 9.26%; O 10.58%; S 21.21%

Use/Importance: Industrial biocide. Also has antiinflammatory, analgesic and antipyretic props.

Physical Description: Needles (EtOH aq.)

Melting Point: Mp 157-158°

Fluka: 12275

>>Derivative: S-Oxide

CAS Registry Number: 14599-38-3

Molecular Formula: C₇H₅NO₂S

Molecular Weight: 167.188

Accurate Mass: 167.004099

Percentage Composition: C 50.29%; H 3.01%; N 8.38%; O 19.14%; S 19.18%

Physical Description: Cryst. (Me₂CO)

Melting Point: Mp 157-158°

Rare Chemicals Library: S15218-8

>>Derivative: S,S-Dioxide

see Saccharin, [BMT14-M](#)

References:

- McKibben, M. *et al.*, *J.C.S.*, 1923, 170, (*synth*)
Reissert, A., *Ber.*, 1928, **61**, 1680, (*props*)
Cavalca, L. *et al.*, *Gazz. Chim. Ital.*, 1970, **100**, 629, (*cryst struct*)
Feichtinger, H., *Chem. Ber.*, 1971, **104**, 1697, (*synth*)
Davis, M., *Adv. Heterocycl. Chem.*, 1972, **14**, 43, (*rev*)
Japan. Pat., 1979, 7 837 862; *CA*, **90**, 121580, (*synth*)
Szabó, J. *et al.*, *Tetrahedron*, 1988, **44**, 2985, (*oxide, synth, cmr, pmr, ir*)