



>>Entry Name: Ethyl hydrogen sulfate

ENTRY UNDER REVIEW

Synonym(s): Monoethyl sulfate, 9CI. Sulfovinic acid. Ethylsulfuric acid

CAS Registry Number: 540-82-9

EtOSO₂OH

Molecular Formula: C₂H₆O₄S

Molecular Weight: 126.133

Accurate Mass: 125.99868

Percentage Composition: C 19.04%; H 4.79%; O 50.74%; S 25.42%

General Statement: Has not been obt. pure

Source/Synthesis: Occurs in wine

Physical Description: Pale amber, oily liq.

Solubility: Misc. and slowly hyd. H₂O

Density: d¹⁷ 1.316

Other Data: Dec. on heating → C₂H₄. Forms salts which are readily sol. in H₂O and dec. on boiling in soln.

Hazard & Toxicity: Highly irritant. Emits highly toxic fumes on heating to dec.

References:

Evans, F.N. *et al.*, *J.A.C.S.*, 1917, **39**, 456, (*synth, salts*)

Popelier, F., *Bull. Soc. Chim. Belg.*, 1926, **35**, 264, (*synth, derivs*)

Hamid, M.A. *et al.*, *J.C.S.*, 1926, 1098, (*synth, salts*)

Breslow, D.S. *et al.*, *J.A.C.S.*, 1954, **76**, 5361, (*synths*)

Page, R., *Ethylene Its Ind. Deriv.*, Ernest Benn Ltd, London, 1969, 787, (*rev, bibl*)

Masaki, M. *et al.*, *Bull. Chem. Soc. Jpn.*, 1973, **46**, 3174, (*synth, derivs*)

Sax, N.I., *Dangerous Properties of Industrial Materials*, 5th edn., Van Nostrand Reinhold, 1979, 674