



>>Entry Name: Arsonoacetic acid, 9Cl

Synonym(s): Carboxymethylarsonic acid. Arsinoacetic acid. Aricyl acid

CAS Registry Number: 107-38-0

Related CAS Registry Numbers(s): 126-82-9

(HO)₂AsOCH₂COOH

Molecular Formula: C₂H₅AsO₅

Molecular Weight: 183.98

Accurate Mass: 183.935294

Percentage Composition: C 13.06%; H 2.74%; As 40.72%; O 43.48%

Source/Synthesis: Synth. from As(ONa)₃ + ClCH₂COONa

Physical Description: White hexagonal cryst. (Me₂CO or HOAc)

Melting Point: Mp 152°

Solubility: V. sol. H₂O, EtOH; spar. sol. hot HOAc; insol. C₆H₆, Me₂CO, CHCl₃, EtOAc

Other Data: Reacts with H₃PO₂ → Arsenoacetic acid [FKM46-S](#)

Hazard & Toxicity: Highly toxic

Rare Chemicals Library: S81871-2

References:

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Hamer, D. *et al.*, *J.C.S.*, 1961, 1398, (*synth, ir*)

Gamayurova, V.S. *et al.*, *Zh. Obshch. Khim.*, 1976, **46**, 2073; *J. Gen. Chem. USSR (Engl. Transl.)*, 1976, **46**, 1995, (*synth*)

Rozovskaya, T.A. *et al.*, *Biochem. J.*, 1984, **224**, 645

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