



>>Entry Name: Sodium dithionite (Na₂S₂O₄)

Synonym(s): Sodium hydrosulfite. Sodium hyposulfite. Sodium sulfoxylate. Dithionous acid, disodium salt, 8Cl

CAS Registry Number: 7775-14-6

Na₂(O₂SSO₂)

Molecular Formula: Na₂O₄S₂

Molecular Weight: 174.109

Accurate Mass: 173.903334

Percentage Composition: Na 26.41%; O 36.76%; S 36.83%

Source/Synthesis: Synth. by reaction of SO₂ with aq. NaOH and sodium formate. Also produced by reduction of SO₂ by sodium amalgam or by zinc dust in the presence of NaOH. Cryst. from aq. soln. as the dihydrate which is readily dehydrated

Use/Importance: Commercially available (85%). Oxidising agent. Bleaching agent

Physical Description: Colourless monoclinic cryst.

Melting Point: Mp 300°

Other Data: Dec. on heating to form Na₂SO₄

Hazard & Toxicity: Flammable solid

Aldrich: 15795-3

Fluka: 71699

Sigma: S1256

>>Derivative: Dihydrate

CAS Registry Number: 13466-11-0

Physical Description: Colourless cryst. (aq. Na₂S₂O₄). Dec. on heating by H₂O loss

Solubility: V. sol. H₂O (25 g per 100 cm³)

References:

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