



>>Entry Name: Trimethylamine oxide, 8Cl

Synonym(s): *N,N*-Dimethylmethanamine *N*-oxide, 9Cl. Trimethyloxamine. Triox

CAS Registry Number: 1184-78-7

Me₃N⁽⁺⁾-O⁽⁻⁾

Molecular Formula: C₃H₉NO

Molecular Weight: 75.11

Accurate Mass: 75.068414

Percentage Composition: C 47.97%; H 12.08%; N 18.65%; O 21.30%

Biological Source: Widely distrib. in animal tissues, esp. fish

Use/Importance: Oxidising agent used in synthesis. Cleaves Si-C bonds

Physical Description: Large cryst. (DMF)

Melting Point: Mp 224-226 dec.°

Solubility: Sol. H₂O, MeOH

Other Data: Hygroscopic

Hazard & Toxicity: Potentially explosive

Aldrich: 31759-4

>>Derivative: Dihydrate

CAS Registry Number: 62637-93-8

Physical Description: Cryst. (H₂O)

Melting Point: Mp 96°

Aldrich: 17686-9

Fluka: 92277

Sigma: T0514

>>Derivative: Hydrochloride

CAS Registry Number: 7651-88-9

Physical Description: Needles (EtOH)

Melting Point: Mp 218°

Solubility: Sol. H₂O, hot MeOH

>>Derivative: Hydroiodide

CAS Registry Number: 81752-56-9

Physical Description: Prisms (EtOH)

Melting Point: Mp 130 dec.°

Solubility: Sol. H₂O, EtOH

References:

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