



>>Entry Name: Sulfuryl chloride isocyanate, 9Cl

Synonym(s): Chlorosulfonyl isocyanate. N-Carbonylsulfonyl chloride

CAS Registry Number: 1189-71-5

ClSO₂NCO

Molecular Formula: CCINO₃S

Molecular Weight: 141.535

Accurate Mass: 140.928741

Percentage Composition: C 8.49%; Cl 25.05%; N 9.90%; O 33.91%; S 22.66%

Source/Synthesis: Synth. from ClCN + SO₃ at 130°

Use/Importance: Versatile synthetic reagent. Most reactive known isocyanate. Also brings about aromatic chlorinations

Physical Description: Liq. which fumes in moist air forming CO₂ + H₂NS₃OH + HCl

Melting Point: Mp -80°

Boiling Point: Bp 106-107°. Bp 54-56°

Density: d₄²⁰ 1.626

Refractive Index: n_D²⁷ 1.4435

Other Data: Stable to 300°

Hazard & Toxicity: Reacts violently with H₂O. Severe irritant

Aldrich: 14266-2

Fluka: 26391

Sigma: C1651

References:

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