



>>Entry Name: (Chloromethyl)phosphonothioic acid



Molecular Formula: CH₄ClO₂PS

Molecular Weight: 146.534

Accurate Mass: 145.935814

Percentage Composition: C 8.20%; H 2.75%; Cl 24.19%; O 21.84%; P 21.14%; S 21.88%

>>Variant: Thiophosphonyl-form

Molecular Formula: CH₄ClO₂PS

Molecular Weight: 146.534

Accurate Mass: 145.935814

Percentage Composition: C 8.20%; H 2.75%; Cl 24.19%; O 21.84%; P 21.14%; S 21.88%

>>Derivative: Difluoride

CAS Registry Number: 1426-00-2

Molecular Formula: CH₂ClF₂PS

Molecular Weight: 150.516

Accurate Mass: 149.92714

Percentage Composition: C 7.98%; H 1.34%; Cl 23.55%; F 25.24%; P 20.58%; S 21.30%

Physical Description: Liq.

Melting Point: Mp -84°

Boiling Point: Bp 93.5-94°

>>Derivative: Dichloride

CAS Registry Number: 1983-27-3

Molecular Formula: CH₂Cl₃PS

Molecular Weight: 183.425

Accurate Mass: 181.868038

Percentage Composition: C 6.55%; H 1.10%; Cl 57.98%; P 16.89%; S 17.48%

Physical Description: Liq.

Boiling Point: Bp₂₀ 80-82°. Bp₁₇ 96-98°

Density: d₄²⁰ 1.6

Refractive Index: n_D²⁰ 1.5770

References:

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