



>>Entry Name: 2-Chloro-5-nitrophenol

CAS Registry Number: 619-10-3

Structure by analogy with 2-Chloro-3-nitrophenol, [DXB82-O](#)

Molecular Formula: $C_6H_4ClNO_3$

Molecular Weight: 173.555

Accurate Mass: 172.987971

Percentage Composition: C 41.52%; H 2.32%; Cl 20.43%; N 8.07%; O 27.66%

Physical Description: Prisms (H_2O)

Melting Point: Mp 119.5°

>>Derivative: Ac

Molecular Formula: $C_8H_6ClNO_4$

Molecular Weight: 215.592

Accurate Mass: 214.998536

Percentage Composition: C 44.57%; H 2.81%; Cl 16.44%; N 6.50%; O 29.68%

Melting Point: Mp 82°

>>Derivative: Benzoyl

Molecular Formula: $C_{13}H_8ClNO_4$

Molecular Weight: 277.663

Accurate Mass: 277.014186

Percentage Composition: C 56.23%; H 2.90%; Cl 12.77%; N 5.04%; O 23.05%

Melting Point: Mp 127-128°

>>Derivative: Me ether

Synonym(s): 1-Chloro-2-methoxy-4-nitrobenzene. 2-Chloro-5-nitroanisole

CAS Registry Number: 1009-36-5

Molecular Formula: $C_7H_6ClNO_3$

Molecular Weight: 187.582

Accurate Mass: 187.003621

Percentage Composition: C 44.82%; H 3.22%; Cl 18.90%; N 7.47%; O 25.59%

Physical Description: Yellow needles (MeOH)

Melting Point: Mp 83°

Other Data: Steam-volatile

>>Derivative: Et ether

Synonym(s): 1-Chloro-2-ethoxy-4-nitrobenzene. 2-Chloro-5-nitrophenetole

Molecular Formula: $C_8H_8ClNO_3$

Molecular Weight: 201.609

Accurate Mass: 201.019271

Percentage Composition: C 47.66%; H 4.00%; Cl 17.58%; N 6.95%; O 23.81%

Physical Description: Needles or leaflets (petrol or EtOH)

Melting Point: Mp 64.5°

References:

v. Erp, H., *J. Prakt. Chem.*, 1930, **127**, 20