



>>Entry Name: **2,4-Dinitrobenzoic acid**, 9Cl, 8Cl

CAS Registry Number: 610-30-0

Structure by analogy with 2,3-Dinitrobenzoic acid, [FBC63-M](#)

Molecular Formula: C₇H₄N₂O₆

Molecular Weight: 212.118

Accurate Mass: 212.006938

Percentage Composition: C 39.64%; H 1.90%; N 13.21%; O 45.26%

Use/Importance: Used in photography

Melting Point: Mp 182-183°

pKa Value: pK_a 1.43 (25°, H₂O)

Aldrich: 13795-2

Fluka: 41910

Rare Chemicals Library: S43081-1

Sigma: D4914

>>Derivative: Me ester

CAS Registry Number: 18959-17-6

Molecular Formula: C₈H₆N₂O₆

Molecular Weight: 226.145

Accurate Mass: 226.022588

Percentage Composition: C 42.49%; H 2.67%; N 12.39%; O 42.45%

Melting Point: Mp 70°

>>Derivative: Chloride

CAS Registry Number: 20195-22-6

Molecular Formula: C₇H₃ClN₂O₅

Molecular Weight: 230.564

Accurate Mass: 229.97305

Percentage Composition: C 36.47%; H 1.31%; Cl 15.38%; N 12.15%; O 34.70%

Melting Point: Mp 42-46°

>>Derivative: Amide

CAS Registry Number: 13296-87-2

Molecular Formula: C₇H₅N₃O₅

Molecular Weight: 211.134

Accurate Mass: 211.022922

Percentage Composition: C 39.82%; H 2.39%; N 19.90%; O 37.89%

Physical Description: Greenish needles

Melting Point: Mp 203-204°

>>Derivative: Nitrile

Synonym(s): 1-Cyano-2,4-dinitrobenzene

CAS Registry Number: 4110-33-2

Molecular Formula: C₇H₃N₃O₄

Molecular Weight: 193.118

Accurate Mass: 193.012357

Percentage Composition: C 43.54%; H 1.57%; N 21.76%; O 33.14%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 104-105°

>>Derivative: Anhydride

Molecular Formula: C₁₄H₆N₄O₁₁

Molecular Weight: 406.222

Accurate Mass: 406.003311

Percentage Composition: C 41.39%; H 1.49%; N 13.79%; O 43.32%

Melting Point: Mp 160°

References: