



>>Entry Name: 1,4-Diaminoanthraquinone, 8CI

Synonym(s): 1,4-Diamino-9,10-anthracenedione, 9CI. Cellitonechitviolet R. C.I. Disperse Violet I

CAS Registry Number: 128-95-0

Molecular Formula: $C_{14}H_{10}N_2O_2$

Molecular Weight: 238.245

Accurate Mass: 238.074228

Percentage Composition: C 70.58%; H 4.23%; N 11.76%; O 13.43%

Use/Importance: Dye for synthetic fibres. Monomer used in coloured polyamides and polyurethanes

Physical Description: Dark-violet cryst. with metallic cast (EtOH)

Melting Point: Mp 268°

Hazard & Toxicity: Mutagenic props. Eye irritant

Aldrich: 36783-4

Fluka: 32730

>>Derivative: *N,N'*-Di-Ac

CAS Registry Number: 6534-28-7

Molecular Formula: $C_{18}H_{14}N_2O_4$

Molecular Weight: 322.32

Accurate Mass: 322.095358

Percentage Composition: C 67.08%; H 4.38%; N 8.69%; O 19.86%

Physical Description: Reddish-yellow cryst.

Melting Point: Mp 271°

Rare Chemicals Library: S34529-6

>>Derivative: *N*-Benzoyl

CAS Registry Number: 81-46-9

Molecular Formula: $C_{21}H_{14}N_2O_3$

Molecular Weight: 342.353

Accurate Mass: 342.100443

Percentage Composition: C 73.68%; H 4.12%; N 8.18%; O 14.02%

Physical Description: Violet cryst. (PhNO₂)

Melting Point: Mp 280°

Hazard & Toxicity: Eye irritant

Rare Chemicals Library: S17500-5

>>Derivative: *N,N'*-Dibenzoyl

Synonym(s): Caledon Red 5G. Red Algol SG

CAS Registry Number: 2987-68-0

Molecular Formula: $C_{28}H_{18}N_2O_4$

Molecular Weight: 446.461

Accurate Mass: 446.126658

Percentage Composition: C 75.33%; H 4.06%; N 6.27%; O 14.33%

Use/Importance: Dye for synthetic fabrics

Physical Description: Dark-red cryst.

Melting Point: Mp 284°

>>Derivative: *N*-Me

Synonym(s): 1-Amino-4-(methyamino)anthraquinone. C.I. Disperse Violet 4. C.I. Solvent Violet 12

CAS Registry Number: 1220-94-6

Molecular Formula: $C_{15}H_{12}N_2O_2$

Molecular Weight: 252.272

Accurate Mass: 252.089878

Percentage Composition: C 71.42%; H 4.79%; N 11.10%; O 12.68%

Use/Importance: Dye

Melting Point: Mp 192-193°