



>>Entry Name: 2-Naphthylamine, 8Cl

Synonym(s): 2-Naphthalenamine, 9Cl.  $\beta$ -Naphthylamine. 2-Aminonaphthalene

CAS Registry Number: 91-59-8

Extra CAS Registry Numbers(s): 25168-10-9

Molecular Formula:  $C_{10}H_9N$

Molecular Weight: 143.188

Accurate Mass: 143.073499

Percentage Composition: C 83.88%; H 6.34%; N 9.78%

Use/Importance: Formerly used as a coupling agent for the prep. of azo dyestuffs and in rubber manuf. Manuf. and use now banned owing to carcinogenic properties. Acid-base fluorescent indicator (pH range: 2.8-4.4)

Physical Description: Leaflets ( $H_2O$ )

Melting Point: Mp  $113^\circ$

Boiling Point: Bp  $306^\circ$  ( $294^\circ$ )

Solubility: Sol.  $H_2O$

pKa Value:  $pK_a$  4.2 ( $25^\circ$ )

Other Data: Steam-volatile

Hazard & Toxicity: Human carcinogen. Use in the UK prohibited under the Control of Substances Hazardous to Health Regulations 1988. Chronic exposure associated with cancer of the bladder

Aldrich: A6640-5

Sigma: N7750

Supelco: 44-2362

>>Derivative: Hydrochloride

CAS Registry Number: 612-52-2

Melting Point: Mp  $254^\circ$

Solubility: Sol.  $H_2O$ , EtOH; insol.  $C_6H_6$

>>Derivative: Picrate

CAS Registry Number: 20717-84-4

Physical Description: Yellow needles ( $H_2O$ )

Melting Point: Mp  $195\text{ dec.}^\circ$

>>Derivative: Ac

CAS Registry Number: 581-97-5

Molecular Formula:  $C_{12}H_{11}NO$

Molecular Weight: 185.225

Accurate Mass: 185.084064

Percentage Composition: C 77.81%; H 5.99%; N 7.56%; O 8.64%

Physical Description: Leaflets ( $H_2O$  or EtOH)

Melting Point: Mp  $134^\circ$

Rare Chemicals Library: S45844-9

>>Derivative: Benzoyl

CAS Registry Number: 18271-22-2

Molecular Formula:  $C_{17}H_{13}NO$

Molecular Weight: 247.296

Accurate Mass: 247.099714

Percentage Composition: C 82.57%; H 5.30%; N 5.66%; O 6.47%

Melting Point: Mp  $163^\circ$

>>Derivative: 4-Methylbenzenesulfonyl

Physical Description: Needles and leaflets (EtOH)

Melting Point: Mp  $133^\circ$

>>Derivative: N-Me