

# N-Phenyl-2-Naphthylamine



Safety (MSDS) data

This product is from a Valetime Integrated Source

## GENERAL

**CAS** 135-88-6 (Chemical Abstract Registry Number)  
**EC-Number** 612-135-00-8  
**Synonyms** N-Phenyl-beta-naphthylamine, N-Phenyl-2-Naphthalenamine, Phenyl-beta-naphthylamine, anilinonaphthalene, 2-anilinonaphthalene, N-(2-naphthyl)aniline, 2-naphthylphenylamine, beta-naphthylphenylamine, 2-phenylaminonaphthalene, phenyl-2-naphthylamine, N-(2-naphthyl)-N-phenylamine, N-beta-naphthyl-N-phenylamine, PBNA

**Molecular formula** C<sub>16</sub>H<sub>13</sub>N  
**Use**

This compound is used as an antioxidant in rubber processing and to provide oxidation and flex-cracking resistance in natural rubber, synthetic rubbers and latexes. It is used as a stabiliser in electrical-insulating silicon enamels and as an antioxidant in other polymers, greases, lubricating oils and transformer oils. This compound is an effective heat and light stabiliser, vulcanisation accelerator, catalyst and polymerisation inhibitor. It is used as a component of rocket fuels, surgical plasters and tin electroplating paths. This compound is used as a chemical intermediate and as an inhibitor for butadiene. It is also used in the production of seven dyes.



## PHYSICAL DATA

**Appearance** light grey powder or crystals  
**Melting Point** 108 °C (Specification 104.5 °C)  
**Boiling Point** 395 °C  
**Specific Gravity** 1.34

## STABILITY

Stable.  
Incompatible with oxidizing agents.

## TOXICOLOGY

Harmful. **Possible human carcinogen.** May act as a sensitizer.

**Toxicity data** ORL-MUS LD50 1450 mg kg<sup>-1</sup>  
**Risk phrases** R20 R21 R22 R33 R40 R42 R43.

## PERSONAL PROTECTION

Safety glasses, gloves and good ventilation. Treat as a potential carcinogen.

**Safety phrases** S22 S26 S36.

Disclaimer for Specifications