

ANILINE OIL



CAS Number: 62-53-3

Other Names: Aniline Oil, Benzenamine, Phenylamine, Aminobenzene

Formula: $C_6H_5NH_2$.

PRODUCT INTRODUCTION

Aniline is an organic compound with the formula $C_6H_5NH_2$. Consisting of a phenyl group attached to an amino group, aniline is the simplest aromatic amine. Like most volatile amines, it has the odor of rotten fish. It ignites readily, burning with a smoky flame characteristic of aromatic compounds. Aniline is toxic by inhalation of the vapor, ingestion, or percutaneous absorption

PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colorless, oily, yellowish, transparent liquid, tending to be darker after being stocked
Purity % \geq	99.95% (m/m)
Nitrobenzene % \leq	0.001% (m/m)
High Boilers \leq	0.002% (m/m)
Low Boilers \leq	0.002% (m/m)
Water Content by Coulometric KF \leq	0.08 % (m/m)

APPLICATIONS

- Aniline is mainly used for the preparation of methylene dianiline and related compounds by condensation with formaldehyde. The diamines are condensed with phosgene to give methylene diphenyl diisocyanate, a precursor to urethane polymers.
- Other uses include rubber processing chemicals (9%), herbicides (2%), and dyes and pigments (2%).
- As additives to rubber, aniline derivatives such as phenylenediamines and diphenylamine, are antioxidants.
- Illustrative of the drugs prepared from aniline is paracetamol (acetaminophen, Tylenol). The principal use of aniline in the dye industry is as a precursor to indigo, the blue of blue jeans.

PACKAGING OPTIONS

Drums

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