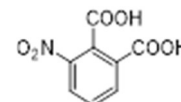




## TECHNICAL DATA SHEET

**Product name:** 3-Nitrophthalic acid



### Specifications

Parameters	Specifications	Typical results
Appearance	White to yellowish crystalline Powder.	White crystalline powder
Identification by IR	IR spectra of sample should concord with the standard sample of 3 Nitro phthalic acid	Complies
Melting point	210-215°C	211-215°C
Assay by HPLC	NLT 98%	99.7%
Water content by KF	NMT 0.5 %	0.3 %
Solubility	Soluble in Methanol	Complies

### Stability and storage

Stable under normal conditions.

Avoid direct sunlight, air contact and Moisture.

Storage Condition: Keep container tightly closed.

Store in original container. Store in a dry place.

Protect from moisture.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Use only outdoors or in a well-ventilated area.

### Application Areas

3-Nitrophthalic acid may be used as starting reagent in the synthesis of modified 2-iodoxybenzoic acid derivatives.

It may be used in the synthesis of brucinium 2-carboxy-6-nitrophthalate dihydrate (systematic name: 2,3-dimethoxy-10-oxostyrychnidinium 2-carboxy-6-nitrophthalate dihydrate), via heating with brucine.

It can be used as a new type of corrosion inhibitor, in order to improve the corrosion resistance life of steel structures in acidic media.

It Acts as a ligand and forms rare earth complexes and spectral analysis studies.

### General information

CAS No.	: 603-11-2
IUPAC Name	: 3-nitrophthalic acid
Synonyms	: 1,2-Benzenedicarboxylic acid
EC No	: 210-030-8

### Physical/Chemical properties

Molecular Formula	: C8H5NO6
Molecular weight	: 211.13
Melting point	: 211-215°C
Boiling Point	: 350.79°C
Relative vapour density at 20 °C	: 7.3
Physical state at 20°C	: White to yellowish crystalline Powder.

### Hazard classification & labelling

Single Word : Danger

Pictogram :



Classification according to Regulation (EC) No 1272/2008: : H315, H318, H335

Precautionary statement(s) : P261, P280, P305+P351+P338