

EN Guidechem Chemical Network - Chemical Manufacturers, suppliers, B2B Marketplace (guidechem.com)
 **** MATERIAL SAFETY DATA SHEET ****

2-Nitrophenol, 99%

**** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****

MSDS Name: 2-Nitrophenol, 99%

Catalog Numbers:

12874-0000, 12874-0010, 12874-0050, 12874-1000, 12874-5000

Synonyms:

Company Identification (Europe): Acros Organics BVBA
 Janssen Pharmaceuticaaan 3a
 2440 Geel, Belgium

Company Identification (USA): Acros Organics
 One Reagent Lane
 Fairlawn, NJ 07410

For information in North America, call: 800-ACROS-01

For information in Europe, call: 0032(0) 14575211

For emergencies in the US, call CHEMTREC: 800-424-9300

For emergencies in Europe, call: 0032(0) 14575299

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

CAS#	Chemical Name	%	EINECS#	Haz Symbols	Risk Phrases
88-75-5	2-Nitrophenol	99%	201-857-5		

Hazard Symbols: XN

Risk Phrases: 20/21/22 33

**** SECTION 3 - HAZARDS IDENTIFICATION ****

EMERGENCY OVERVIEW

Harmful by inhalation, in contact with skin and if swallowed. Danger of cumulative effects.

Potential Health Effects

Eye:

May cause eye irritation.

Skin:

May cause skin irritation. Harmful if absorbed through the skin.

Ingestion:

Harmful if swallowed. May cause irritation of the digestive tract. Effects may be delayed 2 to 4 hours. Methemoglobinemia is characterized by dizziness, drowsiness, headache, shortness of breath, cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood), rapid heart rate and chocolate-brown colored blood. May form methemoglobin which in sufficient concentration causes cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood).

Inhalation:

Harmful if inhaled. May cause cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood). May cause respiratory tract irritation. Methemoglobinemia is characterized by dizziness, drowsiness, headache, shortness of breath, cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood), rapid heart rate and chocolate-brown blood.

Chronic:

Not available.

**** SECTION 4 - FIRST AID MEASURES ****

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:

Get medical aid. Wash mouth out with water.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Treat symptomatically and supportively.

**** SECTION 5 - FIRE FIGHTING MEASURES ****

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media:

Use water spray to cool fire-exposed containers. Use dry powder or carbon dioxide.

**** SECTION 6 - ACCIDENTAL RELEASE MEASURES ****

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container. Do not flush into a sewer.

**** SECTION 7 - HANDLING and STORAGE ****

Handling:

Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

Storage:

Store in a cool, dry place. Store in a tightly closed container.

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipment

Eyes:

Wear chemical goggles.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

**** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****

Physical State:	Solid
Color:	yellow
Odor:	phenol-like
pH:	Not available.
Vapor Pressure:	0.15 hPa @25 deg C
Viscosity:	1.35mPa.s@80 deg C
Boiling Point:	214-216 deg C@760mmHg
Freezing/Melting Point:	43-47 deg C
Autoignition Temperature:	550 deg C (1,022.00 deg F)
Flash Point:	108 deg C (226.40 deg F)
Explosion Limits, lower:	Not available.
Explosion Limits, upper:	Not available.
Decomposition Temperature:	280 deg C
Solubility in water:	2 g/l in water (25°C)
Specific Gravity/Density:	
Molecular Formula:	C6H5NO3
Molecular Weight:	139.11

**** SECTION 10 - STABILITY AND REACTIVITY ****

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials, ignition sources, temperatures above 120°C.

Incompatibilities with Other Materials:

Strong oxidizing agents, strong bases, lead, strong acids, nitrogen compounds, caustic alkalis.

Hazardous Decomposition Products:

Nitrogen oxides, carbon monoxide, carbon dioxide, phenol.

Hazardous Polymerization: Has not been reported.

**** SECTION 11 - TOXICOLOGICAL INFORMATION ****

RTECS#:

CAS# 88-75-5: SM2100000

LD50/LC50:

CAS# 88-75-5: Oral, mouse: LD50 = 1297 mg/kg; Oral, rat: LD50 = 334 mg/kg; Skin, rabbit: LD50 = >7940 mg/kg.

Carcinogenicity:

2-Nitrophenol -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

See actual entry in RTECS for complete information.

**** SECTION 12 - ECOLOGICAL INFORMATION ****

Ecotoxicity:

Daphnia: Daphnia: EC50 = 75 mg/l; 24H; .Fish: Fathead Minnow: LC50 = 100 mg/l; 96H; flowtrough bioasssayFish: Bluegill/Sunfish: LC50 = 46 mg/l; 48H; .Bacteria: Phytobacterium phosphoreum: EC50 = 35 ppm; 30 min.; Microtox testDaphnia: Daphnia: IC50 = 42 mg/l; 24H; .Daphnia: Daphnia: LC50 = 210 mg/l; 24H; .log POW = 1.8BCF = 14

Other

Readily biodegradable. Avoid entering into waters or underground water. Do not empty into drains.

**** SECTION 13 - DISPOSAL CONSIDERATIONS ****

Dispose of in a manner consistent with federal, state, and local regulations.

**** SECTION 14 - TRANSPORT INFORMATION ****

IATA

Shipping Name: NITROPHENOLS

Hazard Class: 6.1

UN Number: 1663

Packing Group: III

IMO

Shipping Name: NITROPHENOLS

Hazard Class: 6.1

UN Number: 1663

Packing Group: III

RID/ADR

Shipping Name: NITROPHENOLS

Hazard Class: 6.1

UN Number: 1663

Packing group: III

USA RQ: CAS# 88-75-5: 100 lb final RQ (Listed under Nitrophenol, mixed); 45.4 kg final RQ (Listed unde

**** SECTION 15 - REGULATORY INFORMATION ****

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN

Risk Phrases:

R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R 33 Danger of cumulative effects.

Safety Phrases:

S 36/37 Wear suitable protective clothing and gloves.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 88-75-5: 2

United Kingdom Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

Canada

CAS# 88-75-5 is listed on Canada's DSL List.

CAS# 88-75-5 is listed on Canada's Ingredient Disclosure List.

Exposure Limits

US FEDERAL

TSCA

CAS# 88-75-5 is listed on the TSCA inventory.

**** SECTION 16 - ADDITIONAL INFORMATION ****

MSDS Creation Date: 7/16/1996 Revision #1 Date: 2/01/2001

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.
