

OQ PRODUCT HANDLING GUIDE

n-Heptanoic Acid CAS # 111-14-8



n-Heptanoic Acid is a colorless liquid with a slightly bitter odor. It is soluble in alcohol and ether but insoluble in water. n-Heptanoic Acid is stable under recommended storage conditions, but will burn if heated or exposed to an ignition source. n-Heptanoic Acid is available from OQ in the following packages:

 UN 1H1/Y1.9/150 55-Gallon High Density Polyethylene Drums

Air1.2 or Dry Nitrogen1.2,3

- DOT 111A100W6 Tank Cars or 111A60ALW1
- DOT MC 307 or DOT 407 Tank Trucks
- Ship Tank and Barge

ololuge		
	Recommended Temperature	
	Maximum	
	Minimum	

Recommended Blanketina

Maximum Minimum	100°F (37.8°C) 32°F (0°C)
Recommended Pressure	Atmospheric
Bulk Quantities	Outside, detached tanks
Small Containers	Cool, dry, well ventilated area

Handling

Storage

- Thoroughly review Safety Data Sheet before handling product.
- Keep containers closed when not in use.
- Open containers slowly to allow any excess pressure to vent.
- Keep away from heat, sparks, flame, or other sources of ignition.

See the National Fire Protection Agency (NFPA) #30 "Flammable and Combustible Liquids Code" and consult with qualified fire protection specialists to determine specific storage tank design requirements. Refer to the OQ Safety Data Sheet for more specific health and environmental

- Protect small containers from physical damage.
- Use proper electrical grounding and bonding procedures when loading, unloading, and transferring.¹
- Refer to the OQ Safety Data Sheet for more information on materials to avoid.

information and refer to the OQ Product Descriptions for additional physical properties and general product information. Safety Data Sheet and Product Descriptions for n-Heptanoic Acid are available through your OQ sales representative.

- Use spark-resistant tools.
- Electrical equipment and circuits in all storage and handling areas must conform to requirements of national electrical code (Articles 500 and 501) for hazardous location.
- 1. Refer to NFPA #77 "Static Electricity" for proper electrical grounding procedures.
- See the National Fire Protection Agency (NFPA) #30 "Flammable and Combustible Liquids Code" and consult with qualified fire protection specialists to determine specific storage tank design requirements.

3. Blanketing may be used to retain quality in long-term storage conditions.

This information is based on our present state of knowledge and shall be intended to provide general notes on our products and their field of application. It shall therefore not be construed as guaranteeing specific characteristics of the products described and/or their suitability for a particular application. Any existing industrial property rights shall be observed. The quality of our products is warranted under our General Conditions of Sale.

OQ Chemicals Corporation

15375 Memorial Drive West Memorial Place I, Suite 300 Houston, TX 77079 – USA Page 1 of 2 10520 OQ PHG EN V1.docx

OQ Chemicals GmbH Rheinpromenade 4a 40789 Monheim Germany



OQ PRODUCT HANDLING GUIDE

n-Heptanoic Acid CAS # 111-14-8



Materials of Construction for Storage and Transportation

ltem	Recommended	Acceptable
Tank	Stainless Steel ¹	Stainless Steel ²
Piping	Stainless Steel ¹	Stainless Steel ²
Valves	Stainless Steel ¹	Stainless Steel ²
Pumps	Stainless Steel ¹	Stainless Steel ²
Relief Valves	Stainless Steel ¹	Stainless Steel ²
Gaskets	Glass Filled PTFE⁵	Graphite
Pump Seals	Single mechanical seal: Stainless steel/Hastelloy C-276 metallic components ³ , Kalrez O-rings	-
Valve Packing	PTFE⁵	Graphite
Pipe End Connections	Welded and flanged system	-
Heat Exchanger	Product Side: Alloy C-276 Stainless Steel ¹	Product Side: Stainless Steel ²
Hoses	Stainless Steel ¹	Stainless Steel ²
Tank Truck	Stainless Steel ^{1,2}	Aluminum⁴
Tank Car	Stainless Steel ^{1,2}	Aluminum⁴
Barge	Stainless Steel ^{1,2}	-
Ship Tank	Stainless Steel ^{1,2}	-

- 1. Type 316 Stainless Steel at a temperature less than 300°F (134.7°C).
- 2. Type 304 Stainless Steel at a temperature less than 140°F (60°C).
- 3. Use Alloy-C-276 seal components for long service life.
- 4. Use 3000, 5000, 6000 series Aluminum when the temperature does not exceed 120°F (49°C)
- 5. Polytetrafluoroethylene.

This information is based on our present state of knowledge and shall be intended to provide general notes on our products and their field of application. It shall therefore not be construed as guaranteeing specific characteristics of the products described and/or their suitability for a particular application. Any existing industrial property rights shall be observed. The quality of our products is warranted under our General Conditions of Sale.

OQ Chemicals Corporation

15375 Memorial Drive West Memorial Place I, Suite 300 Houston, TX 77079 – USA Page 2 of 2 10520 OQ PHG EN V1.docx