

# 1-DECANOL

1490  
April 2005

CAS No: 112-30-1  
RTECS No: HE4375000  
UN No: 3082

Decane-1-ol  
n-Decyl alcohol  
Capric alcohol  
Nonyl carbinol  
n-Decanol  
 $C_{10}H_{22}O / CH_3(CH_2)_9OH$   
Molecular mass: 158.28

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
<b>FIRE</b>	Combustible.	NO open flames.	Water spray. Carbon dioxide. Alcohol-resistant foam. Dry powder.
<b>EXPLOSION</b>			

EXPOSURE			
<b>Inhalation</b>	Cough. Sore throat.	Ventilation.	Fresh air, rest.
<b>Skin</b>	Dry skin. Redness.	Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
<b>Eyes</b>	Redness.	Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>Ingestion</b>	Abdominal pain. Burning sensation in the throat and chest. Nausea. Vomiting.	Do not eat, drink, or smoke during work.	Rinse mouth. Give plenty of water to drink.

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Personal protection: filter respirator for organic gases and vapours. Do NOT let this chemical enter the environment. Cover the spilled material with absorbent. Collect leaking liquid in sealable containers.	UN Hazard Class: 9 UN Pack Group: III Marine pollutant.

EMERGENCY RESPONSE	SAFE STORAGE
Transport Emergency Card: TEC (R)-90GM6-III NFPA Code: H0; F2; R0	Separated from strong oxidants, acid anhydrides and acid chlorides. Store in an area without drain or sewer access.

### IMPORTANT DATA

**Physical State; Appearance**

COLOURLESS LIQUID, WITH CHARACTERISTIC ODOUR.

**Chemical dangers**

The substance decomposes on burning producing irritating fumes. Reacts violently with acid anhydrides, acid chlorides and strong oxidants.

**Occupational exposure limits**

TLV not established.  
MAK not established.

**Routes of exposure**

The substance can be absorbed into the body by inhalation of its aerosol.

**Inhalation risk**

A harmful contamination of the air will not or will only very slowly be reached on evaporation of this substance at 20/C.

**Effects of short-term exposure**

The substance is irritating to the eyes and the skin. The substance may cause effects on the central nervous system at high levels.

**Effects of long-term or repeated exposure**

The liquid defats the skin.

### PHYSICAL PROPERTIES

Boiling point: 230/C

Melting point: 7/C

Density: 0.83 g/cm<sup>3</sup>

Solubility in water, g/100 ml at 20/C: 0.37 (very poor)

Vapour pressure, Pa at 20/C: 1

Relative vapour density (air = 1): 5.5

Relative density of the vapour/air-mixture at 20/C (air = 1): 1.01

Flash point: 108/C c.c.

Auto-ignition temperature: 255/C

Explosive limits, vol% in air: 0.7-5.5

Octanol/water partition coefficient as log Pow: 4.23 (calculated)

### ENVIRONMENTAL DATA

The substance is toxic to aquatic organisms.

### NOTES

### ADDITIONAL INFORMATION

**LEGAL NOTICE**

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible