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Technical Data Sheet

1-Tetradecanol

Product Information

Chemical Name	1-Tetradecanol
CAS #	112-72-1
EINECS	204-000-3
Formula	C ₁₄ H ₃₀ O
Molecular Weight	214.39
Synonyms	C14 Alcohol, Myristyl Alcohol
Chemical Structure	



Description

1-Tetradecanol, known as Myristyl alcohol and C14 alcohol, exists in white waxy solid form under 36°C and melts into liquid form over 36°C. It is generated from the natural coconut oil. Like other natural fatty alcohol, C14 alcohol is an inert chemical which is almost insoluble in water. But it is easily soluble in alcohol, ether, acetone, benzene and chloroform. C14 alcohol is also provided with a pungent odor. But it plays the important role of the synthesis of fragrance material, surfactant agents and some organic chemicals, etc.

Physical Properties

Characters:	White solid with repungent odor(below 36°C), waxy solid(over 36°C)
Melting point:	36°C
Solibility:	Easily soluble in alcohol, ether, acetone, benzene and chloroform but insoluble in water

Specification

Appearance	Transparent liquid
Color(APHA)	10max
Hydroxyl value(mg KOH/g)	259-263
Acid value(mg KOH/g)	0.1max
Iodine value(g I ₂ /100g)	0.3max
Saponification value(mg KOH/g)	0.5max
Moisture(%)	0.1max
Hydrocarbon(%)	0.5max
Carbon Chain Distribution(GC. wt%)	
C12	1.0max
C14	99.0min
C16	1.0max

Safety

This product is not regulated as a hazardous substance either in packing group or shipping. Disposal must be made according to local and national regulations. Avoid to contact eyes since it may cause serious eye damage. It may cause allergy or asthma symptoms or breathing difficulties if inhaled. It may cause an allergic skin reaction if on skin. Always refer to the Material Safety Data Sheet (MSDS)

Applications

For heavy industry, 1-Tetradecanol can be used as lubricant for cold rolling aluminum. This is mainly to improve the surface of metals and it feels more smooth.

For Cosmetics use, 1-Tetradecanol is an important raw material used for the synthesis of cosmetics products raw materials.

For other industry, C14 alcohol can be also used to produce plasticizers and some other related chemical raw materials such as polymer stabilizer and ethers, etc.

Packaging

170kg/drum, 13.6 tons per 20GP container.

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