

1-Octadecanol

Solid C18 fatty alcohol for industrial lubrication, viscosity modification and emulsifying formulation development.

CAS No. 112-92-5	EC / List No. 204-017-6	Transport Non-dangerous goods
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Product Information

1-Octadecanol is a long-chain saturated fatty alcohol, also known as stearyl alcohol. Its chemical formula is C₁₈H₃₈O and its molecular weight is 270.49 g/mol. At 20°C the supplied material is a white solid rather than a liquid alcohol solvent.

Specifications

Parameter	Specification
Appearance at 20°C	White solid
Color	≤30 Hazen
Acidity	≤0.1 mg KOH/g
Saponification value	≤0.5 mg KOH/g
Iodine value	≤0.5 g I ₂ /100 g
Hydroxyl value	200–220 mg KOH/g
Hydrocarbon content	≤1.5 %
Active content	≥96 %

Supply limits refer to the identified ZXCHEM technical reference. Reference SDS properties describe the cited material and are not batch test results.

Typical Properties

Property	Typical Value
Molecular formula	C ₁₈ H ₃₈ O
Molecular weight	270.49 g/mol

Applications

Drilling-fluid lubricant development: Evaluate stearyl alcohol in lubricant and friction-control packages for drilling operations. Test compatibility, dispersion and performance at the relevant fluid composition and operating temperature.

Viscosity and consistency modification: Use the solid fatty alcohol as a consistency modifier in industrial formulation development. Assess the thermal behaviour, phase stability and flow response in the full formulation.

Emulsifying and interfacial systems: Ingredient for fatty-alcohol emulsifying and interfacial packages. Select the appropriate formulation and qualify personal-care or other regulated end uses separately.

Packaging / Storage

Item	Information
Packing	25 kg bags
Storage	Store sealed in a cool, dry, ventilated place. Protect from heat and moisture and keep separate from strong oxidizing agents.
Shelf life	Two years in sealed original packaging.
Handling	Limit dust generation and use local extraction where needed. Wear chemical-resistant gloves and safety glasses. Keep solid fatty alcohol away from ignition sources and avoid dust accumulation.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
Shanghai office	Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China
Telephone / Email	+86-21-54265599 / sales@zxchem.com.cn
Website	www.zxchem.com