

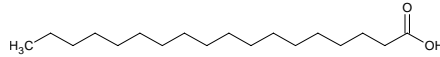
# stearic acid

## ステアリック アシド

Formula C18H36O2

Mol. Wt. 284.48

CAS No. 57-11-4



SEQ No. 2296 脂肪酸類

FEMA No. 3035

JECFA No. 116

	JFFMA	JECFA	FCC
Chemical name	stearic acid	Stearic acid	Stearic acid
Content (NLT)	98.0 % (Chem)	40 % 90% total stearic + palmitic acids	
Refractive index			
Specific gravity			
Acid value (NMT)		196-211	196-211
Melting/Congeeing point	MP: 65 to 73°C	MP: 64°C	SP: 54.5 to 69° °C
Angular/Specific rotation			
Heavy metals (NMT)			Lead : 2mg/kg
Solubility in ethanol		1 g in 20 ml alcohol	1 g dissolves in about 20ml of alcohol
Other requirements		Water: < 0.2% Saponification Value:197 to 212; Unsaponifiable Matter: < 1.5%; SC: Palmitic acid; Myristic acid; 9-Octadecenoic acid; Heptadecanoic acid; Eicosanoic acid; Pentadecanoic acid	Water max. 0.2% Residue on Ignit. 0.1% Iodine Value Not more than 7, Saponification Value Between 197 and 211, Unsaponifiable Matter Not more than 1.5%
Identification*	IR :1,3 MS :3,4,5 NMR :3	IR	

### \*References

- 1: Joint FAO/WHO Expert Committee on Food Additive (JECFA)
- 2: Food Chemicals Codex (FCC)
- 3: 有機化合物のスペクトルデータベース SDBS(独立行政法人産業技術総合研究所)
- 4: Wiley's Registry of Mass spectral Database
- 5: NIST/EPA/NIH Mass Spectral Library
- 6: Sigma-Aldrich