

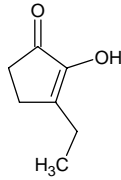
# 3-ethyl-2-hydroxy-2-cyclopentenone

## 3-エチル-2-ヒドロキシ-2-シクロペンテノン

Formula C<sub>7</sub>H<sub>10</sub>O<sub>2</sub>

Mol. Wt. 126.15

CAS No. 21835-01-8



SEQ No. 828 ケトン類

FEMA No. 3152

JECFA No. 419

	JFFMA	JECFA	FCC
Chemical name	3-ethyl-2-hydroxy-2-cyclopentenone	Ethylcyclo-pentenolone	
Content (NLT)	97.0 % (GC)	90 %	
Refractive index		1.47-1.48 (n <sub>20D</sub> )	
Specific gravity		1.060-1.066 (d <sub>25/25</sub> )	
Acid value (NMT)			
Melting/Congeealing point	MP: 37 to 43°C	MP: 36 to 43°C	
Angular/Specific rotation			
Heavy metals (NMT)			
Solubility in ethanol		-	
Other requirements		SC: 3-ethylcyclopentan-1,2-dione (enolic form)	
Identification*	IR :1,6 MS :4,5 NMR :6	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