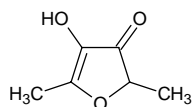


4-hydroxy-2,5-dimethyl-3(2H)-furanone

4-ヒドロキシ-2,5-ジメチル-3(2H)-フランオン

Formula C₆H₈O₃

Mol. Wt. 128.13



CAS No. 3658-77-3

SEQ No. 959 ケトン類

FEMA No. 3174

JECFA No. 1446

	JFFMA	JECFA	FCC
Chemical name	4-hydroxy-2,5-dimethyl-3(2H)-furanone	4-Hydroxy-2,5-dimethyl-3(2H)-furanone	4-Hydroxy-2,5-dimethyl-3(2H)-furanone
Content (NLT)	98.0 % (GC)	98 %	98.0 % in a suitable solvent /GC(M-1a)
Refractive index			
Specific gravity			
Acid value (NMT)		3	
Melting/Congealing point	MP: 73 to 83°C	MP: 78 to 80°C	
Angular/Specific rotation			
Heavy metals (NMT)			
Solubility in ethanol		Soluble	1 g in 1 mL 95% alc
Other requirements			
Identification*	IR :1,2,6 MS :1,4,5 NMR :1,6	HNMR IR MS	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