

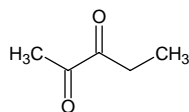
2,3-pentanedione

2,3-ペンタンジオン

Formula C₅H₈O₂

Mol. Wt. 100.12

CAS No. 600-14-6



SEQ No. 58 ケトン類

FEMA No. 2841

JECFA No. 410

	JFFMA	JECFA	FCC
Chemical name	2,3-pentanedione	2,3-Pentadione	2,3-Pentanedione
Content (NLT)	93.0 % (GC)	93 %	93.0 % GC(M-1b)
Refractive index	1.398-1.408 (n _{20D})	1.402-1.406 (n _{20D})	1.402-1.406 (n _{20D})
Specific gravity	0.957-0.967 (d _{20/20})	0.979-0.985 (d _{25/25})	0.952-0.962 (d _{25/25})
Acid value (NMT)			
Melting/Congeealing point			
Angular/Specific rotation			
Heavy metals (NMT)			
Solubility in ethanol		1 ml in 3 ml 50% alcohol	1 mL in 3 mL 50% alc
Other requirements		SC: 2,5-diethylcyclohexadien-1,4-dione (dimer of 2,3-pentadione)	
Identification*	IR : 1,2,3,6 MS : 3,4,5 NMR : 3,6	IR	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