

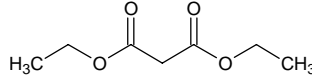
diethyl malonate

ジエチル マロネート

Formula C₇H₁₂O₄

Mol. Wt. 160.17

CAS No. 105-53-3



SEQ No. 552 エステル類

FEMA No. 2375

JECFA No. 614

	JFFMA	JECFA	FCC
Chemical name	diethyl malonate	Diethyl malonate	Diethyl Malonate
Content (NLT)	98.0 % (GC)	97 %	98.0 % GC(M-1b)
Refractive index	1.411-1.417 (n _{20D})	1.412-1.416 (n _{20D})	1.413-1.416 (n _{20D})
Specific gravity	1.054-1.060 (d _{20/20})	1.053-1.056 (d _{25/25})	1.053-1.056 (d _{25/25})
Acid value (NMT)	1.0	1	1.0
Melting/Congeealing point			
Angular/Specific rotation			
Heavy metals (NMT)			
Solubility in ethanol		1 mL in 1.5 mL 60% alcohol	1 mL in 1.5 mL 60% alc
Other requirements			
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