

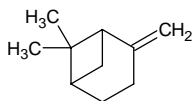
beta-pinene

β-ピネン

Formula C₁₀H₁₆

Mol. Wt. 136.23

CAS No. 127-91-3



SEQ No. 2177 テルペン系炭化水素類

FEMA No. 2903

JECFA No. 1330

	JFFMA	JECFA	FCC
Chemical name	beta-pinene	beta-Pinene	β-Pinene
Content (NLT)	95.0 % (GC)	97 %	97.0 % GC(M-1a)
Refractive index	1.473-1.483 (n _{20D})	1.476-1.482 (n _{20D})	1.477-1.481 (n _{20D})
Specific gravity	0.867-0.877 (d _{20/20})	0.867-0.871 (d _{25/25})	0.867-0.871 (d _{25/25})
Acid value (NMT)		1.0	
Melting/Congeealing point			
Angular/Specific rotation			AR: -30 to -15°
Heavy metals (NMT)			
Solubility in ethanol		Insoluble	1 mL in 3 mL 95% ethanol
Other requirements		Minimum assay value may include traces of limonene, alpha pinene and other common C ₁₀ H ₁₆ terpenes	
Identification*	IR :6 MS :4,5 NMR :1,6	NMR	

*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