

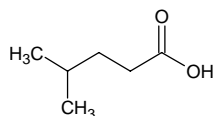
4-methylpentanoic acid

4-メチルペンタノイック アシド

Formula C₆H₁₂O₂

Mol. Wt. 116.16

CAS No. 646-07-1



SEQ No. 1899 脂肪酸類

FEMA No. 3463

JECFA No. 264

| | JFFMA | JECFA | FCC |
|---------------------------|---------------------------------------|-----------------------------------|-----------------------------------|
| Chemical name | 4-methylpentanoic acid | 4-Methylpentanoic acid | 4-Methylpentanoic Acid |
| Content (NLT) | 95.0 % (GC) | 98.0 % | 98.0 % Chem(M-3a) |
| Refractive index | 1.410-1.420 (n _{20D}) | 1.412-1.417 (n _{20D}) | 1.412-1.417 (n _{20D}) |
| Specific gravity | 0.920-0.930 (d _{20/20}) | 0.919-0.926 (d _{25/25}) | 0.919-0.926 (d _{25/25}) |
| Acid value (NMT) | | | |
| Melting/Congeealing point | | | |
| Angular/Specific rotation | | | |
| Heavy metals (NMT) | | | |
| Solubility in ethanol | | 1 ml in 1 ml 95% alcohol | 1 mL in 1mL 95% alc |
| Other requirements | | | |
| Identification* | IR : 1,2,3,5,6 MS : 4,5 NMR : 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