

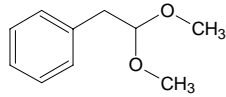
# phenylacetaldehyde dimethyl acetal

## フェニルアセトアルデヒド ジメチル アセタール

Formula C<sub>10</sub>H<sub>14</sub>O<sub>2</sub>

Mol. Wt. 166.22

CAS No. 101-48-4



SEQ No. 2149 エーテル類

FEMA No. 2876

JECFA No. 1003

	JFFMA	JECFA	FCC
Chemical name	phenylacetaldehyde dimethyl acetal	Phenylacetaldehyde dimethyl acetal	Phenylacetaldehyde Dimethyl Acetal
Content (NLT)	97.0 % (GC)	95 %	95.0 % GC(M-1b)
Refractive index	1.492-1.498 (n <sub>20D</sub> )	1.492-1.498 (n <sub>20D</sub> )	1.493-1.496 (n <sub>20D</sub> )
Specific gravity	1.002-1.010 (d <sub>20/20</sub> )	1.000-1.006 (d <sub>25/25</sub> )	1.000-1.006 (d <sub>25/25</sub> )
Acid value (NMT)	1.0	1.0	1.0
Melting/Congeaing point			
Angular/Specific rotation			
Heavy metals (NMT)			
Solubility in ethanol		1 mL in 2 mL 70% ethanol	1 mL in 2 mL 70% alc remains clear to 10 mL
Other requirements			Chlorinated Cmpds.- passes test. Free Phenyl Acetaldehyde 1.0% /GC(M-1b)
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