



>>Entry Name: Avobenzone, INN, USAN

Synonym(s): 1-[4-(1,1-Dimethylethyl)phenyl]-3-(4-methoxyphenyl)-1,3-propanedione, 9CI. 1-(*p*-*tert*-Butylphenyl)-3-(*p*-methoxyphenyl)-1,3-propanedione. 4-(1,1-Dimethylethyl)-4'-methoxydibenzoylmethane. Parsol 1789. Parsol A. Clarins. Shade Uvagard



CAS Registry Number: 70356-09-1

Molecular Formula: C₂₀H₂₂O₃

Molecular Weight: 310.392

Accurate Mass: 310.156895

Percentage Composition: C 77.39%; H 7.14%; O 15.46%

Use/Importance: Sunscreen agent

Physical Description: Cryst. (MeOH)

Melting Point: Mp 83.5°

Calculated Log P Data: Log P 4.68 (calc)

Other Data: Component of Photoplex

References:

Ger. Pat., 1980, *Givaudan*, 2 945 125; *CA*, **93**, 185967g, (*synth*)

Kuhnert-Brandstaetter, M. *et al.*, *Sci. Pharm.*, 1987, **55**, 27, (*polymorphism*)

Ikeda, K. *et al.*, *J. Chromatogr.*, 1989, **482**, 240, (*hplc*)

Garmyn, M. *et al.*, *J. Invest. Dermatol.*, 1989, **92**, 642, (*activity*)

Bissett, D.L. *et al.*, *Photodermatology*, 1989, **6**, 228, (*activity*)

Martindale, The Extra Pharmacopoeia, 30th edn., *Pharmaceutical Press*, 1993, 1234