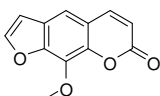




Certificate of Analysis

Axon Catalogue ID: 3449 **Batch Number:** 1
Product Name: Methoxsalen
Alternative Name(s): Xanthotoxin; 8-Methoxypsoralen; 8-MOP
IUPAC Name: 9-Methoxy-7H-furo[3,2-g]chromen-7-one

Structure:



Amount:

CAS number(s): 298-81-7
Molecular Formula: C₁₂H₈O₄ **Molecular Weight:** 216.19
Batch Molecular Formula: C₁₂H₈O₄ **Batch Molecular Weight:** 216.19
Appearance: Off-white solid **Observed mp:** 147.6 - 149.2 °C
TLC (R_f): 0.17 Hex/EtOAc (4:1)
Chemical Purity: 99.9%
Optical Purity (ee): N.A.
¹H-NMR: Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: Calculated: C 66.67, H 3.73, N 0.00; Found: C 66.67, H 3.71, N <0.10
Storage Conditions: Store at +4 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water	0.0	0.0	Insoluble
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	21.0	97.1	
	EtOH	4.3	19.7	* Warming (40°C) and sonication

Remarks: Electrostatic.
* Warming (40°C) and sonication enhanced solubility.

QC Date: 17-8-2021

The purity of Axon Ligands is confirmed by HPLC, MS, NMR and/or microanalysis. Analytical data are available upon request. Request can be submitted by e-mail to info@axonmedchem.com indicating Catalogue ID and Batch number.

Caution: Not fully tested. For research purposes only