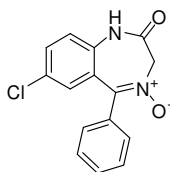




Certificate of Analysis

Axon Catalogue ID: 3406 **Batch Number:** 1
Product Name: Demoxepam
Alternative Name(s): RO 5-2092
IUPAC Name: 7-Chloro-2-oxo-5-phenyl-2,3-dihydro-1H-benzo[e][1,4]diazepine 4-oxide

Structure:



Amount:

CAS number(s): 963-39-3
Molecular Formula: C₁₅H₁₁ClN₂O₂ **Molecular Weight:** 286.71
Batch Molecular Formula: C₁₅H₁₁ClN₂O₂·0.3H₂O **Batch Molecular Weight:** 292.12
Appearance: Pale-yellow solid **Observed mp:** >230 °C (decomp)
TLC (R_f): 0.76 DCM/MeOH/NH₃ (9:1:0.1)
Chemical Purity: 99.1%
Optical Purity (ee): N.A.
¹H-NMR: Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: Calculated: C 61.67, H 4.00, N 9.59; Found: C 61.34, H 3.73, N 9.49
Storage Conditions: Desiccate at -20 °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	29.2	>100 mM	
	EtOH			Not Tested

Remarks:

QC Date: 07-04-2021

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