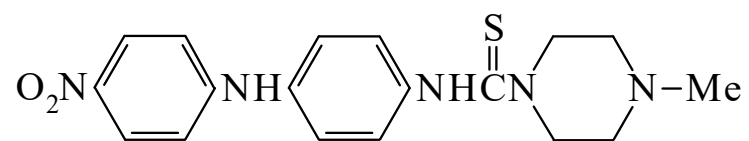




>> **Name:** Amocarzine, INN

Synonym(s): 4-Methyl-*N*-[4-[(4-nitrophenyl)amino]phenyl]-1-piperazinecarbothioamide, 9Cl. 4-Methyl-1-[4-(4-nitrophenylamino)phenylthiocarbamido]piperazine. Phenthiourezine. Thiocarbamazine. CGP 6140



CAS Registry Number: 36590-19-9

Molecular Formula: C₁₈H₂₁N₅O₂S

Molecular Weight: 371.462

Accurate Mass: 371.141595

Percentage Composition: C 58.20%; H 5.70%; N 18.85%; O 8.61%; S 8.63%

Use/Importance: Antifilarial anthelmintic

Melting Point: Mp 191-196°

Calculated Log P Data: Log P 3.79 (calc)

>> **Derivative:** 4-Oxide

CAS Registry Number: 113962-61-1

Molecular Formula: C₁₈H₂₁N₅O₃S

Molecular Weight: 387.462

Accurate Mass: 387.13651

Percentage Composition: C 55.80%; H 5.46%; N 18.07%; O 12.39%; S 8.28%

Physical Description: Orange-red cryst. (MeOH)

Melting Point: Mp 162°

References:

Ger. Pat., 1972, *Agripat*, 2 143 838; *CA*, **77**, 48078y, (*synth*)

Anjaneyulu, B., *Indian J. Chem., Sect. B*, 1987, **26**, 657, (*oxide, ir, uv, pmr*)

Strote, G., *Trop. Med. Parasitol.*, 1987, **38**, 211; 335; 1989, **40**, 51, (*pharmacol*)

Davies, K.P. *et al.*, *Exp. Parasitol.*, 1989, **68**, 382, (*pharmacol*)

Köhler, P. *et al.*, *Acta Trop.*, 1992, **51**, 195, (*pharmacol, activity, rev*)

Martindale, The Extra Pharmacopoeia, 30th edn., Pharmaceutical Press, 1993, 39