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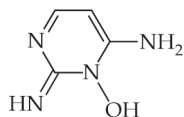
## Aminexil and Minoxidil

### IUPAC NAME

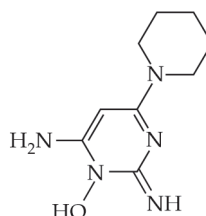
**Aminexil:** Diaminopyrimidine oxide

**Minoxidil:** 2,4-pyrimidinediamine, 6-(1-piperidinyl)-, 3-oxide

### STRUCTURE



Aminexil



Minoxidil

### CHROMATOGRAPHIC CONDITIONS

|                                    |                                                                                                                                                      |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Column                             | Waters C18, 250 mm × 4.6 (5 µ)                                                                                                                       |
| Mobile phase                       | Methanol:n-Heptane sulphonic acid sodium salt buffer (8.75 g sodium salt of n-heptane sulphonic acid in 1000 ml water):Glacial acetic acid (60:38:2) |
| Detector                           | 254 nm                                                                                                                                               |
| Column temperature                 | 30°C                                                                                                                                                 |
| Diluent                            | Methanol                                                                                                                                             |
| Flow                               | 1.0 ml/ min                                                                                                                                          |
| Run time                           | 20 minutes                                                                                                                                           |
| Retention time (minutes) (approx.) | Aminexil: 3.04<br>Minoxidil: 5.13                                                                                                                    |
| Injection volume                   | 10 µl                                                                                                                                                |