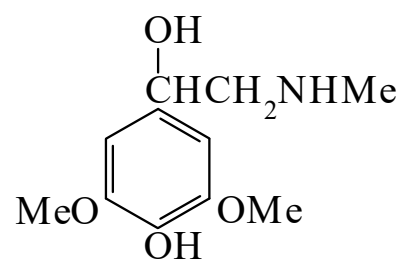




>>Entry Name: Dimetofrine, INN

Synonym(s): 4-Hydroxy-3,5-dimethoxy- $\alpha$ -[(methylamino)methyl]benzyl alcohol, 8Cl. Dimethophrine



CAS Registry Number: 22950-29-4

Type of Compound Code(s): XA1670

Molecular Formula: C<sub>11</sub>H<sub>17</sub>NO<sub>4</sub>

Molecular Weight: 227.26

Accurate Mass: 227.115759

Percentage Composition: C 58.14%; H 7.54%; N 6.16%; O 28.16%

Use/Importance: Sympathomimetic, hypertensive agent. Forms potent genotoxic prod. with NO<sub>2</sub><sup>(-)</sup> *in vitro*

Calculated Log P Data: Log P -0.46 (calc)

>>Variant: (±)-form

Molecular Formula: C<sub>11</sub>H<sub>17</sub>NO<sub>4</sub>

Molecular Weight: 227.26

Accurate Mass: 227.115759

Percentage Composition: C 58.14%; H 7.54%; N 6.16%; O 28.16%

Melting Point: Mp 178 dec.°

pKa Value: pK<sub>a</sub> 9.71

>>Derivative: Hydrochloride

Synonym(s): Dimetofrine hydrochloride. Dovid. Pressamina. SM-14. Superten. SM 14

CAS Registry Number: 22775-12-8

Melting Point: Mp 171-173°

>>Derivative: Maleate

CAS Registry Number: 22775-15-1

Melting Point: Mp 194-198°

#### References:

U.K. Pat., 1969, *Dr L Zambelletti*, 1 145 637; *CA*, **71**, 38585y, (*synth, pharmacol*)

Brambilla, G. *et al.*, *J. Pharmacol. Exp. Ther.*, 1988, **244**, 1011, (*tox*)

*Martindale, The Extra Pharmacopoeia*, 30th edn., *Pharmaceutical Press*, 1993, 1242