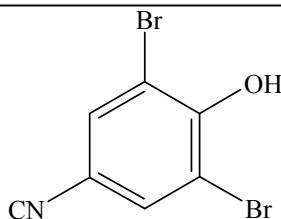


# CIPAC STATUS REPORT

28/06/2005



## 0087 Bromoxynil

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Allocated to GB

CIPAC methods published in :

CIPAC 1C, p. 1989 (GLC)  
CIPAC H, p. 57 (heptanoate)

**CIPAC** 12th meeting, June 1968 in Braunschweig

Collaborative work will begin shortly on GLC methods.

**CIPAC** 15th meeting, October 1971 in Washington

Coll. work to be carried out by GB.

**CIPAC** 16th meeting, June 1972 in Stockholm

Work in progress by the GLC Group of PAC.

**CIPAC** 18th meeting, June 1974 in London

Coll. work on method for bromoxynil techn. nearly completed.

**CIPAC** 19th meeting, June 1975 in Oeiras

Work in progress. Coll. work on bromoxyniloctanoate will begin shortly.

**CIPAC** 20th meeting, June 1976 in Wädenswil

Report of coll. work on GLC method in preparation. The AOAC Ass.Ref. will start coll. work with a GLC method.

**CIPAC** 21st meeting, June 1977 in Braunschweig

Work on technical bromoxynil almost completed. Panel directs attention now to the octanoate ester. Also under study in AOAC.

**CIPAC** 22nd meeting, June 1978 in Versailles

Difficulties have emerged with analysis of technical bromoxynil. These will probably be solved next year. The octanoate ester must be analyzed as such, because there exist different esters. A determination of the total bromoxynil content may also be necessary (free bromoxynil). The AOAC is still studying ester formulations by GLC. Mrs Åkerblom reported to use a reversed phase HPLC system with AcOH/MeOH as solvent.

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**CIPAC** 23rd meeting, June 1979 in Baltimore

Decision The GLC method for bromoxynil technical, CIPAC/2719, app. A, was adopted as full CIPAC method.

**CIPAC** 24th meeting, May 1980 in Salobrena

Revised method CIPAC/2837/M.

**CIPAC** 25th meeting, June 1981 in Gembloux

The panel is considering a direct GLC method for bromoxynil octanoate (CIPAC/2910/R), with in addition a determination of free bromoxynil. The possibility of hydrolysis of the ester and subsequent methylation to get the total bromoxynil was also considered. In that case the hydrolysis needed to be tightly controlled to prevent destruction of bromoxynil. Mr Laurent reported that he was studying a transesterification procedure and he drew also attention to the fact that the octanoate usually was mixed with mecoprop esters. A HPLC procedure might be useful for those mixtures. The impurities might be difficult to determine, but might be less important in the case of mixtures.

**CIPAC** 26th meeting, May 1982 in Rome

Results of a direct GLC method for the technical ester were presented (CIPAC/3005/R). The AOAC method had given troubles because the internal standard interfered with components of the GB formulations.

The method would also work for the heptanoate ester. Ret. times could be estimated by interpolation between ret. times of octanoate and hexanoate esters given in the method.

Decision The GLC method for the technical octanoate ester (CIPAC/3006/M) was adopted as full CIPAC method.

**CIPAC** 39th meeting, May 1995 in Limassol

Mr Hanks reported that the AOAC first action method for bromoxynil octanoate is now final action and can adopted as full AOAC-CIPAC method.

Concerning bromoxynil heptanoate Mr Hill remarked that collaborative work was in progress.

Decision The provisional AOAC-CIPAC method for bromoxynil technical and EC, CIPAC Handbook IC p 2004, was adopted as full AOAC-CIPAC method.

**CIPAC** 40th meeting, May 1996 in Beijing

A report, CIPAC/3913, of a preliminary study of a GLC method for the determination of bromoxynil heptanoate in TC and formulations was presented. A full CIPAC study is on the way.

**CIPAC** 41st meeting, June 1997 in Roskilde

Mr Rowson presented the report, CIPAC/3963, of a study with a GLC method for the determination of bromoxynil-heptanoate in TC and formulations with 12 participants. The method is quite similar to that for bromoxynil-octanoate.

Decision The GLC method for bromoxynil-heptanoate technical and EC formulations, CIPAC/3962, has been accepted as provisional CIPAC method.

**CIPAC** 42nd meeting, July 1998 in York

Decision The provisional GLC method for bromoxynil-heptanoate technical and EC formulations, CIPAC/3962, has been accepted as full CIPAC method