

ダイオキシン類分析用ガスクロマトグラフ測定条件の例

| カラム | 長さ (m) | 内径 (mm) | 膜厚 (μm) | 昇温条件 | 測定対象物質 |
|--------------------------|-----------|------------|-------------------------|---|--|
| BPX-DXN (SGE) | 60 | 0.25 | 非公開 | 130°C (1min) \rightarrow (15°C/min) \rightarrow 210°C \rightarrow (3°C/min) \rightarrow 310°C \rightarrow (5°C/min) \rightarrow 320°C | TeCDDs, PeCDDs, HxCDDs, HpCDDs, OCDD, TeCDFs, PeCDFs, HxCDFs, HpCDFs, OCDF, TeCBs, PeCBs, HxCBs, HpCBs |
| CPS-1 (Quadrex) | 50 | 0.25 | 0.25 | 120°C (1min) \rightarrow (30°C/min) \rightarrow 180°C \rightarrow (2°C/min) \rightarrow 230°C | TeCDDs, PeCDDs, HxCDDs, TeCDFs, PeCDFs, HxCDFs |
| CP-Sil 88 (Chrompack) | 50 | 0.22 | 0.20 | 150°C (0min) \rightarrow (30°C/min) \rightarrow 180°C \rightarrow (2°C/min) \rightarrow 230°C | TeCDDs, PeCDDs, HxCDDs, TeCDFs, PeCDFs, HxCDFs |
| DB-17 (J&W) | 30 | 0.32 | 0.25 | 120°C (1min) \rightarrow (20°C/min) \rightarrow 160°C \rightarrow (3°C/min) \rightarrow 280°C | TeCDDs, PeCDDs, HxCDDs, TeCDFs, PeCDFs, HxCDFs |
| DB-210 (J&W) | 30 | 0.32 | 0.25 | 120°C (0min) \rightarrow (20°C/min) \rightarrow 160°C \rightarrow (2°C/min) \rightarrow 240°C | TeCDDs, PeCDDs, HxCDDs, TeCDFs, PeCDFs, HxCDFs |
| DB-225 (J&W) | 30 | 0.32 | 0.25 | 120°C (0min) \rightarrow (20°C/min) \rightarrow 160°C \rightarrow (2°C/min) \rightarrow 240°C | TeCDDs, PeCDDs, HxCDDs, TeCDFs, PeCDFs, HxCDFs |
| DB-5 (J&W) | 30 | 0.32 | 0.25 | 120°C (1min) \rightarrow (50°C/min) \rightarrow 180°C \rightarrow (3°C/min) \rightarrow 280°C | TeCDDs, PeCDDs, HxCDDs, TeCDFs, PeCDFs, HxCDFs |
| DB-5ms (J&W) | 60 | 0.32 | 0.25 | 150°C (1min) \rightarrow (20°C/min) \rightarrow 185°C (3min) \rightarrow (2°C/min) \rightarrow 245°C (3min) \rightarrow (6°C/min) \rightarrow 290°C | TeCBs, PeCBs, HxCBs, HpCBs |
| HT8 (SGE) | 50 | 0.22 | 0.25 | 130°C (1min) \rightarrow (20°C/min) \rightarrow 220°C \rightarrow (5°C/min) \rightarrow 320°C | TeCBs, PeCBs, HxCBs, HpCBs |
| HT8-PCB (SGE) | 60 | 0.25 | 非公開 | 130°C (1min) \rightarrow (20°C/min) \rightarrow 220°C \rightarrow (5°C/min) \rightarrow 320°C | TeCBs, PeCBs, HxCBs, HpCBs |
| OV-17 (Quadrex) | 50 | 0.32 | 0.25 | 120°C (1min) \rightarrow (20°C/min) \rightarrow 160°C \rightarrow (3°C/min) \rightarrow 280°C | TeCDDs, PeCDDs, HxCDDs, TeCDFs, PeCDFs, HxCDFs |
| RH-12ms (Inventx) | 60 | 0.25 | 非公開 | 130°C (1min) \rightarrow (15°C/min) \rightarrow 210°C \rightarrow (3°C/min) \rightarrow 310°C \rightarrow (5°C/min) \rightarrow 320°C | TeCDDs, PeCDDs, HxCDDs, HpCDDs, OCDD, TeCDFs, PeCDFs, HxCDFs, HpCDFs, OCDF, TeCBs, PeCBs, HxCBs, HpCBs |
| SP-2331 (Supelco) | 60 | 0.25 | 0.20 | 120°C (1min) \rightarrow (50°C/min) \rightarrow 200°C \rightarrow (2°C/min) \rightarrow 260°C | TeCDDs, PeCDDs, HxCDDs, TeCDFs, PeCDFs, HxCDFs |