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REV.-7/63

TECHNICAL COMPUTER DEPARTMENT

PROBLEM NO.	JOB NO.	
TITLE		
ANALYST K.E.J	PAGE 1 OF	DATE 10-8-73

```
REX : PROCEDURE OPTIONS(MAIN); ;
      DECLARE( PIP, PIPI, OMCP, OMCPI, MMCP, MMCPI, PMCP, PMCPI, DCP, DCPI, TCP, TCPI,
               A, K, X ) FIXED(8,6) ;
      GET LIST(PIPI, X ) ; COUNT = 0; C = 0 ;
      START: OMCPI, MMCPI, PMCPI, DCPI, TCPI = 0. ;
             ;
      LOOP :
             PIP = 0.8 + COUNT ;   COUNT = COUNT + .005 ;
             A   = 1.6/10027 ;
             K   =(PIPI - PIP) /(A*PIP) ;

             OMCP =(OMCPI + K*PIP) / ( 1. + K/ 1.9952) ;
             MMCP =(MMCPI + K*PIP/11.087)/( 1. + K/ 1.9952 ) ;
             PMCP =(PMCPI + K*PIP/ 1.9237) /( 1. + K/ 1.9952) ;
             DCP  =(DCPI +K*(OMCP+MMCP+PMCP) / 1.9952 ) / ( 1. + K/ 29.831 )
             TCP  =(TCPI + K*DCP/29.831 ;
             X    = OMCP + PMCP + MMCP + 2.*DCP + 3.*TCP
             IF X > .247 & X < .253  THEN GOTO WRITE
                 ELSE GOTO LOOP ;
      WRITE :
             B =(OMCP + MMCP + PMCP) * 154.2 + DCP*223.1 + TCP * 258. ;
             OMCP=OMCP*154.2/B; MMCP=MMCP*154.2/B; PMCP =PMCP*154.2/B ;
             DCP =DCP*223./ B ; TCP:=TCP*258. / B ;
             PUT  SKIP EDIT('OMCP = '; OMCP )( COLUMN(30); A(9), F(8,6)));
             PUT  SKIP EDIT('MMCP = '; MMCP )( COLUMN(30); A(9), F(8,6)));
```

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```
PUT SKIP EDIT('PMCP = ', PMCP )(COLUMN(30), A(9), F(8,6));
PUT SKIP EDIT('DCP = ', BCP )(COLUMN(30), A(9), F(8,6));
PUT SKIP EDIT('TCP = ', TCP )(COLUMN(30), A(9), F(8,6));
K = K + 1.0 ;
IF K = 4. THEN GOTO FINISH
   ELSE GOTO LOOP ;
FINISH ; END REV ;

PUT SKIP EDIT(' MOLES CHLORINE/MOLE BIPHENYL bbb', X )
                (COLUMN(20), A(32), F(8,6) ) ;
```

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