

Title (en)
METHOD FOR PRODUCING 4,4'-DIHALOGENDIPHENYLSULFONE

Title (de)
VERFAHREN ZUR HERSTELLUNG VON 4,4'-DIHALOGENDIPHENYLSULFON

Title (fr)
PROCEDE DE FABRICATION DE 4,4'-DIHALOGENODIPHENYLSULFONE

Publication
EP 0993443 A1 20000419 (DE)

Application
EP 98934947 A 19980610

Priority

- DE 19726806 A 19970624
- DE 19726805 A 19970624
- DE 19726807 A 19970624
- EP 9803507 W 19980610

Abstract (en)
[origin: WO9858907A1] The invention relates to a method for producing 4,4'-dihalogendiphenylsulfone by reacting halogenated benzene with 4-halogenphenylsulfonyl chloride in a liquid phase at high temperature, in the presence of a solid catalyst having acid centers. The method is characterized in that the reaction of 4-halogenphenylsulfonyl chloride with formula (I), in which X is chlorine, bromine or fluorine, with chlorobenzene, bromobenzene, or fluorobenzene, is carried out in the presence of a catalyst which is selected from one of the following groups: K1) catalysts consisting of essentially stratified silicates not having Lewis acids and having proton-saturated negative layer loads, or containing these as a basic component; K2) catalysts consisting of zeolites in the acid H form, or containing these as a basic component; and K3) catalysts consisting of mixed oxides having acidic centres, or containing these as basic components. The mixed oxides consist of a combination of (a) titanium, zirconium, hafnium, tin, iron or Cr(III) oxides on the one hand, and (b) vanadium, chromium(VI), molybdenum, wolfram or scandium oxides on the other hand; or the mixed oxides are sulfatized or phosphatized oxides of the group (a), and said mixed oxides are calcined after combination, at temperatures of 450 to 800 DEG C.

IPC 1-7
C07C 317/14

IPC 8 full level
B01J 21/16 (2006.01); **B01J 23/28** (2006.01); **B01J 23/30** (2006.01); **B01J 23/888** (2006.01); **B01J 23/889** (2006.01); **C07C 315/00** (2006.01); **C07C 317/14** (2006.01)

CPC (source: EP KR)
B01J 21/16 (2013.01 - EP); **B01J 23/28** (2013.01 - EP); **B01J 23/30** (2013.01 - EP); **B01J 23/888** (2013.01 - EP); **B01J 23/8892** (2013.01 - EP); **C07C 315/00** (2013.01 - EP); **C07C 317/14** (2013.01 - KR)

Citation (search report)
See references of WO 9858907A1

Designated contracting state (EPC)
BE DE ES FR GB IT NL

DOCDB simple family (publication)
WO 9858907 A1 19981230; AU 8437998 A 19990104; CA 2283894 A1 19981230; EP 0993443 A1 20000419; KR 20010020308 A 20010315

DOCDB simple family (application)
EP 9803507 W 19980610; AU 8437998 A 19980610; CA 2283894 A 19980610; EP 98934947 A 19980610; KR 19997009914 A 19991026