

Title (en)
IMPROVED PROCESS FOR PREPARING CYCLOPROPYLACETYLENE

Title (de)
VERBESSERTES VERFAHREN ZUR HERSTELLUNG VON CYCLOPROPYLACETYLEN

Title (fr)
PROCEDE AMELIORE DE PRODUCTION DE CYCLOPROPYLACETYLENE

Publication
EP 0973708 A1 20000126 (DE)

Application
EP 98910701 A 19980218

Priority
• DE 19709401 A 19970307
• DE 19732292 A 19970726
• EP 9800927 W 19980218

Abstract (en)
[origin: WO9840333A1] The invention concerns a process for halogenating cyclopropylmethyl ketone with at least one dihalogen triorganophosphorane of the general formula (I): $R_3P\text{Hal}_2$, in which the R groups can be the same or different and designate a saturated or unsaturated aliphatic C1-C20 hydrocarbon group, a phenyl or C1-C4 alkylphenyl group which can optionally be further substituted by one to two fluorine, chlorine and/or nitro groups, P means phosphorus and Hal means chlorine, bromine or iodine, at 80 to 130 DEG C, the dihalogen triorganophosphorane of the general formula (I) being prepared in situ from triorganophosphane oxide or triorganophosphane sulphide of the general formula (II), R_3PA , in which R has the meaning given under formula (I) and A stands for oxygen or sulphur, with a halogenation reagent. The process is characterized in that the triorganophosphane oxide or triorganophosphane sulphide is used in catalytic amounts. The invention also concerns the halogenation product of the cyclopropyl ketone obtained according to this process and a process for reacting it to form cyclopropylacetylene.

IPC 1-7
C07C 17/18; **C07C 22/00**; **C07C 1/30**; **C07C 13/04**; **C07F 9/535**

IPC 8 full level
C07C 1/30 (2006.01); **C07C 13/04** (2006.01); **C07C 17/00** (2006.01); **C07C 17/18** (2006.01); **C07C 22/00** (2006.01); **C07F 9/535** (2006.01)

CPC (source: EP US)
C07C 1/30 (2013.01 - EP US); **C07C 17/00** (2013.01 - EP US); **C07C 17/18** (2013.01 - EP US); **C07F 9/535** (2013.01 - EP US);
C07C 2601/02 (2017.04 - EP US)

Citation (search report)
See references of WO 9840333A1

Cited by
CN111233618A

Designated contracting state (EPC)
AT CH DE ES FR GB IT LI NL

DOCDB simple family (publication)
WO 9840333 A1 19980917; CA 2283118 A1 19980917; EP 0973708 A1 20000126; JP 2001514636 A 20010911; US 6207864 B1 20010327

DOCDB simple family (application)
EP 9800927 W 19980218; CA 2283118 A 19980218; EP 98910701 A 19980218; JP 53912598 A 19980218; US 38038299 A 19990901