

フッ化物イオン含有バナジウム酸化物クラスターの配位形態 制御と酸化触媒特性

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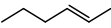
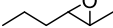
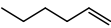
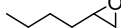
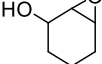
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entry 3 の収率 82%
entry 4 の収率 53%

正

entry 3 の収率 53%
entry 4 の収率 82%

Table 1 Epoxydation of various olefines.^{a)}

entry	substrate	temperature/°C	prduct	yeild/% ^{b)}
1		40		80
2		32		83
3		40		53
4		40		82
5		40		43
6		32		52 ^{c)}

a) Reaction conditions: **V12** (8.3 μ mol), substrate (1 mmol), ^tBuOOH in 5.5 M in decane (1 mmol), DCM/PC 2 mL (1:1, v/v), naphthalene (0.2 mmol, internal standard), 300 min. ^{b)} Determined by GC and/or ¹H NMR spectroscopic analyses.
^{c)} 11% of 2-Cyclohexen-1-one was obtained as a by-product.