

PhosphonicS Oxidation Catalysts

Immobilised oxidation catalysts designed to simplify and streamline your process

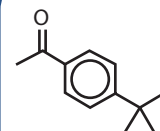
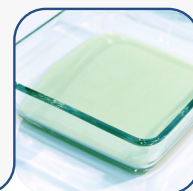
About The PhosphonicS Approach

PhosphonicS uses patented technology for attaching a variety of functional groups to a silica backbone. Our oxidation catalyst products span a range of the metals frequently used to carry out diverse oxidations, whilst benefitting from the advantages of an immobilised reagent. These clean, efficient catalysts can be used across a range of transformations including alkyl-aromatic oxidations, epoxidations and sulfoxidations. All scientists at PhosphonicS relish the opportunity to help you streamline your chemical processes, so you can enjoy the cost savings.

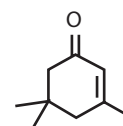
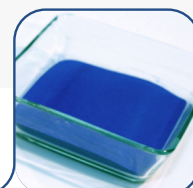
Benefits

- Lower waste disposal costs – reduced environmental impact from elimination of metal contamination
- Purification simplified – minimal metal contamination
- Reduced overall production costs – catalysts can easily be recycled for reuse
- Reduced operating costs compared to homogeneous catalysts

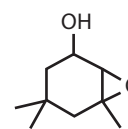
Benzylic Oxidation



Allylic Oxidation



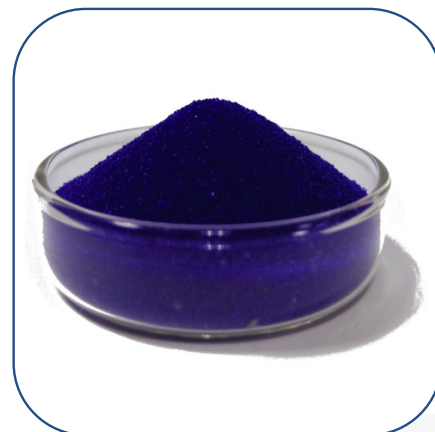
Epoxidation





Features

- Wide range of metal catalysts available
- Easy to handle, free flowing solid
- No pre-treatment required, no swelling
- Can be applied in either fixed-bed (continuous) or slurry (batch) mode



Product Range

Product code	Product name
POCo	Cobalt(II)
POVO	Vanadyl(IV)
POMn	Manganese(II)
POCe	Cerium(IV)
POCr	Chromium(III)



Talk To The Experts

- Our scientists are there to support you throughout your evaluation
- In-house screening and testing programs are always available
- Full engineering support services
- Customised research and development programmes



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PhosponicS

Maximising Potential Returns