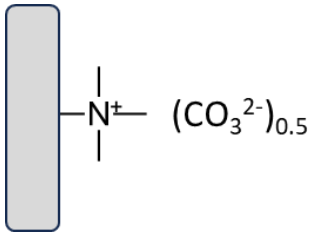
# SABIT™ Karbonik

## Material overview

SABIT Karbonik is a rigid polymeric resin for use in scavenging reactions. The resin chemistry backbone consists of highly stable DVB-Styrene with positively charged polymeric quaternary amines coordinated to negatively charged carbonate counterions. The mesoporous structure is optimal for both small and oligomeric molecules.

## Resin properties

| | |
|---|---|
| Resin matrix | DVB/Sty |
| Resin surface chemistry | Q ammonium carbonate |
| Particle size | 400-1200 µm |
| Porosity | Mesoporous |
| Capacity per g, approx | 2.2 mmol/g |
| Capacity per ml, approx | 0.8 mmol/ml |
| Resin density, approx | 0.38 g/ml |
| Dry volume | 2.6 ml/g |
| Swelling in water | 4.6 ml/g |
| Swelling in MeOH | 4.2 ml/g |
| Swelling in DCM | Condition for compatibility |




## Application areas

This polymer-bound base with its new structure offers higher capacities and faster exchange reactions. The easily accessible carbonate ions are bound to quaternary tetramethyl ammonium groups easily accessible on the resin surface. SABIT Karbonik is a resin-bound alternative to tetra-alkylammonium carbonate and can be used to scavenge a variety of acidic molecules such as

- acidic phenols, HOBt
- carboxylic, boronic, trifluoroacetic, hydrochloric acids
- volatile amines, DIPEA or TEA

Further, it can be used as a general base to quench reactions and to neutralize amine hydrochlorides ie free basing. The large particles of SABIT Karbonik are optimal for facilitated handling and in preparative applications.

## Representative Procedure

Neutralization of Amine Hydrochloride Salt to the free amine

1. Prior to use, the resin may be washed with eg methanol – this will also make it compatible with DCM.
2. Basic drug hydrochloride salt (1 equiv.) in DCM or MeOH
3. Add SABIT Karbonik (2-5 equivalents), shake gently for 1-2 hours
4. Separate resin filtration or sedimentation
5. Wash resin 2 x with DCM or MeOH.
6. Concentrate the filtrate to give the free base.



**Redstone Separations AB**
Lund, Sweden
www.redstone-sep.com

**Place your order at: order@redstone-sep.com.**

| Resin | Grams | Product code |
|---|---|---|
| Sabit Karbonik | 5 | 30-02-0005 |
| Sabit Karbonik | 10 | 30-02-0010 |
| Sabit Karbonik | 25 | 30-02-0025 |
| Sabit Karbonik | 100 | 30-02-0100 |



Contact info:
Email: info@redstone-sep.com
Direct phone: +46-738-156-130
Web: www.redstone-sep.com