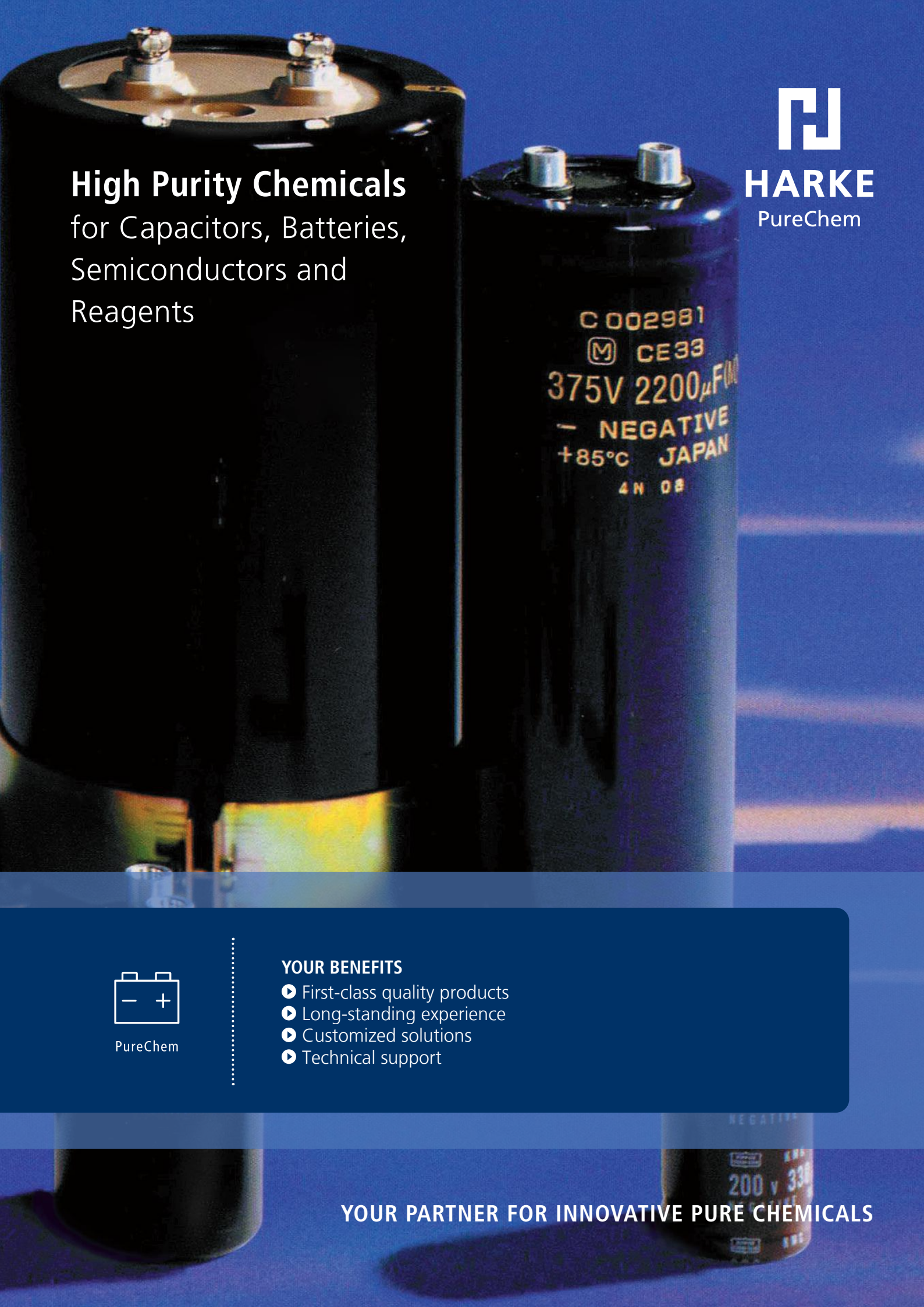

High Purity Chemicals

for Capacitors, Batteries, Semiconductors and Reagents

HARKE
PureChem

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YOUR BENEFITS

- First-class quality products
- Long-standing experience
- Customized solutions
- Technical support

YOUR PARTNER FOR INNOVATIVE PURE CHEMICALS

HARKE PURE CHEMICALS

Thank you for your interest!

Electronic, analytic and research – within these segments high purity chemicals are most important.

Our products meet the highest quality and purity demand.

For more than 55 years HARKE Chemicals GmbH is known as a competent and reliable supplier of high purity materials. Thus the business unit HARKE PureChem supplies manufacturers of PC-boards, microchips, primary and secondary battery systems, tantal- and aluminium electrolyte capacitors, micro motors, hard disks and wave conductor cables with high purity chemicals for various applications.

Moreover, we have many high pure chemicals for different applications in our product range.

Contact us to discuss your application.

Your HARKE PureChem team

PRODUCT GROUPS & PRODUCTS

ELECTROLYTES FOR PRIMARY LITHIUM BATTERIES

Lipaste/various types of electrolytes

ELECTROLYTES FOR SECONDARY LITHIUM BATTERIES

Lipaste/various types of electrolytes

ELECTROLYTES FOR LITHIUM ION CAPACITORS

Lipaste/various types of electrolytes

ADDITIVES FOR ALUMINIUM ELECTROLYTIC CAPACITORS

Various types of additives

ELECTROLYTES FOR ALUMINIUM ELECTROLYTIC CAPACITORS

Capaste/various types of electrolytes

PRODUCT GROUPS & PRODUCTS

ACETATE SALTS

Product	CAS No.
Ammonium acetate, CH_3COONH_4	631-61-8
Sodium acetate trihydrate, $CH_3COONa \cdot 3H_2O$	6131-90-4

AMMONIUM SALTS

Product	CAS No.
Ammonium adipate, $NH_4OOC(CH_2)_4COONH_4$	3385-41-9
Ammonium benzoate, $C_6H_5COONH_4$	1863-63-4
Ammonium formate, $HCOONH_4$	540-69-2
Diammonium hydrogen citrate, $NH_4OOCCH_2C(OH)(COOH)CH_2COONH_4$	3012-65-5
Ammonium acetate, CH_3COONH_4	631-61-8
Ammonium oxalate monohydrate, $(NH_4)_2C_2O_4 \cdot H_2O$	6009-70-7
Ammonium sebacate, $NH_4OOC(CH_2)_8COONH_4$	19402-63-2
Ammonium p-nitrobenzoate dihydrate, $C_6H_4NO_2COONH_4 \cdot 2H_2O$	19416-70-7
Ammonium pentaborate octahydrate, $(NH_4)_2O \cdot 5B_2O_3 \cdot 8H_2O$	12046-03-6
Ammonium tetraborate tetrahydrate, $(NH_4)_2B_4O_7 \cdot 4H_2O$	12228-87-4
Diammonium phthalate, $C_6H_4(COONH_4)_2$	523-24-0
Ammonium dihydrogen phosphinate, $NH_4H_2PO_2$	7803-65-8
Ammonium sulfate, $(NH_4)_2SO_4$	7783-20-2

BORIC ACID AND BORATES

Product	CAS No.
Boric acid, H_3BO_3	10043-35-3
Ammonium pentaborate octahydrate, $(NH_4)_2O \cdot 5B_2O_3 \cdot 8H_2O$	12046-03-6
Ammonium tetraborate tetrahydrate, $(NH_4)_2B_4O_7 \cdot 4H_2O$	12228-87-4
Potassium tetraborate tetrahydrate, $K_2B_4O_7 \cdot 4H_2O$	12045-78-2
Sodium tetraborate decahydrate, $Na_2B_4O_7 \cdot 10H_2O$	1303-96-4
Sodium pentaborate decahydrate, $Na_2B_{10}O_{16} \cdot 10H_2O$	12007-92-0
Lithium tetraborate, $Li_2B_4O_7$	12007-60-2
Boron trioxide, B_2O_3	1303-86-2

LITHIUM SALTS

Product	CAS No.
Lithium tetraborate, $Li_2B_4O_7$	12007-60-2

MANGANESE SALTS/NITRATES

Product	CAS No.
Manganese (II) nitrate hexahydrate, $Mn(NO_3)_2 \cdot 6H_2O$	17141-63-8
Manganese (II) nitrate solution, $Mn(NO_3)_2$	10377-66-9

PRODUCT GROUPS & PRODUCTS

OXALIC ACIDS & OXALATES

Product	CAS No.
Oxalic acid dihydrate, $H_2C_2O_4 \cdot 2H_2O$	6153-56-6
Oxalic acid, anhydrous, $H_2C_2O_4$	144-62-7
Ammonium oxalate monohydrate, $(NH_4)_2C_2O_4 \cdot H_2O$	6009-70-7
Potassium trihydrogen dioxalate dihydrate, $KH_3(C_2O_4)_2 \cdot 2H_2O$	6100-20-5
Potassium oxalate monohydrate, $K_2C_2O_4 \cdot H_2O$	6487-48-5
Sodium oxalate, $Na_2C_2O_4$	62-76-0

POTASSIUM SALTS

Product	CAS No.
Potassium formate, HCOOK	590-29-4
Potassium oxalate monohydrate, $K_2C_2O_4 \cdot H_2O$	6487-48-5
Potassium trihydrogen dioxalate dihydrate, $KH_3(C_2O_4)_2 \cdot 2H_2O$	6100-20-5
Potassium hydrogen phthalate, $C_6H_4(COOH)(COOK)$	877-24-7
Potassium tetraborate tetrahydrate, $K_2B_4O_7 \cdot 4H_2O$	12045-78-2
Acesulfame potassium, $C_4H_4KNO_4S$	55589-62-3

SODIUM SALTS

Product	CAS No.
Sodium acetate trihydrate, $CH_3COONa \cdot 3H_2O$	6131-90-4
Sodium oxalate, $Na_2C_2O_4$	62-76-0
Sodium tetraborate decahydrate, $Na_2B_4O_7 \cdot 10H_2O$	1303-96-4
Sodium pentaborate decahydrate, $Na_2B_{10}O_{16} \cdot 10H_2O$	12007-92-0
Sodium Formate, HCOONa	141-53-7

OTHER ACIDS

Product	CAS No.
Oxalic acid dihydrate, $H_2C_2O_4 \cdot 2H_2O$	6153-56-6
Phthalic acid, $C_6H_4(COOH)_2$	88-99-3
Iminodiacetic acid, $HN(CH_2COOH)_2$	142-73-4
p-Nitrobenzoic acid (4-Nitrobenzoic acid), $NO_2C_6H_4COOH$	62-23-7

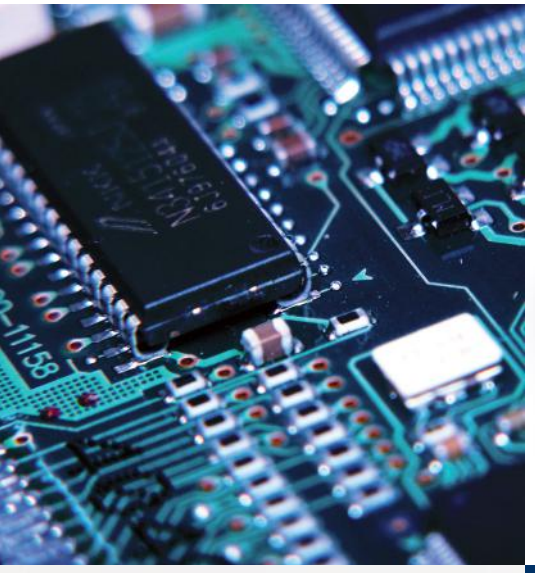
OTHER CHEMICALS

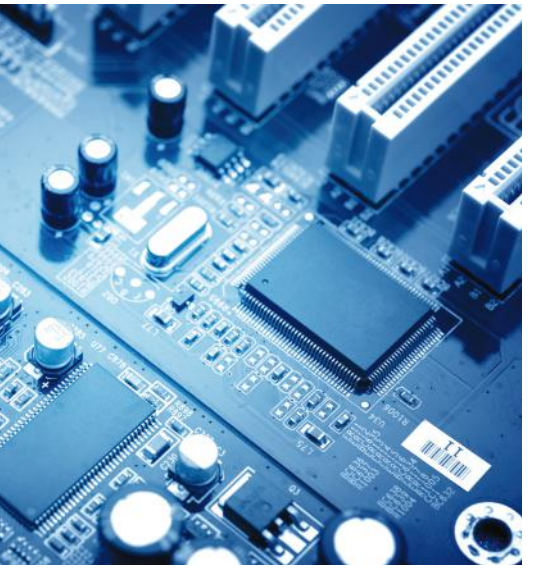
Product	CAS No.
Tetraethylammonium hydrogen phthalate, $C_6H_4(COOH) \cdot N(C_2H_5)_3$	79723-03-8
Urea, NH_2CONH_2	57-13-6
N-Acetylglucosamine, $C_8H_{15}NO_6$	7512-17-6
Polyvinylpolypyrrolidone	25249-54-1
Tin(IV)chloride, $SnCl_4 5H_2O$	10026-06-09
Soda pure, Na_2CO_3	497-19-8

AREAS OF APPLICATION

Is Your Application Included?

Additives for plating	Intermediate for medicine
Additives for yeast culture	Lithium ion capacitors
Aluminium electrolytic capacitors	Metal surface – treatment
Chelating (reagents)	Paint industry
Dyening industry	Ph standard reagents
Flame retardant industry	Photographic industry
Food additives	Primary lithium batteries
Fusing agent	Reagents
Heat treating agent	Secondary lithium batteries
High purity glass industry	And many more ...





Contact us to discuss your application.

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