Corrosion Tables
Korrosionstabelle
Tables de corrosion

TI 054

Technical Information

Phenolic Resin-Impregnated Graphite

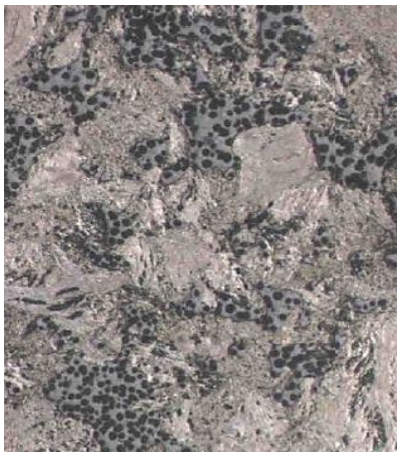
- Phenolic resin-impregnated graphite has outstanding corrosion resistance. It resists against virtually all acids, solvents and halogenated compounds
- Key factors for high quality graphite processing are homogeneous graphite structure, a state of the art impregnation process, and consistent mechanical and thermal processing
- These factors ensures that our products meet the most demanding requirements (e.g. cGMP capabilities)

Providing optimal corrosion resistance against acids, solvents, chlorides and other halogenated compounds

Criteria crucial to quality include graphite raw material structure, impregnation resin and the impregnation process

Impregnation Process

- We impregnate the porous graphite raw material with our unique high-performance resin
- The polymerization step takes place at an elevated temperature. The result is a solid, totally impervious, highly mechanically resistant material with outstanding corrosion resistance



Phenolic resin-impregnated graphite GAB GPX1 (micrograph at 100X)

Product - Produkt - Produit **GPX type**

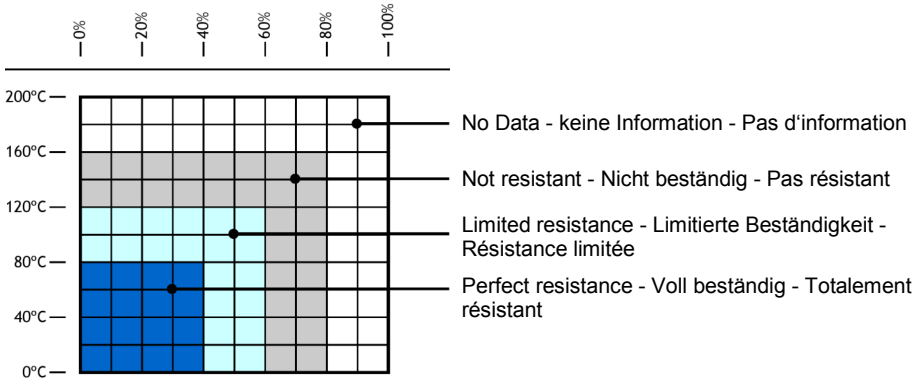
Concentration - Konzentration

Product description in English

Produktbeschreibung in Deutsch

Description du produit en Francais

Chemical formula - Chemische Formel - Formule chimique



GPX is impervious, phenolic resin-impregnated graphite
GPX1 ist ein mit Phenolharz imprägnierter, vollständig dichter Graphit
GPX1 est un graphite imprégné résine phénolique

GPX2 is impervious, phenolic resin-impregnated, densified graphite
GPX2 ist ein mit Phenolharz imprägnierter, vollständig dichterer Graphit
GPX2 est un graphite densifié imprégné résine phénolique

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Graphite and SiC Heat Exchangers and Process Equipment

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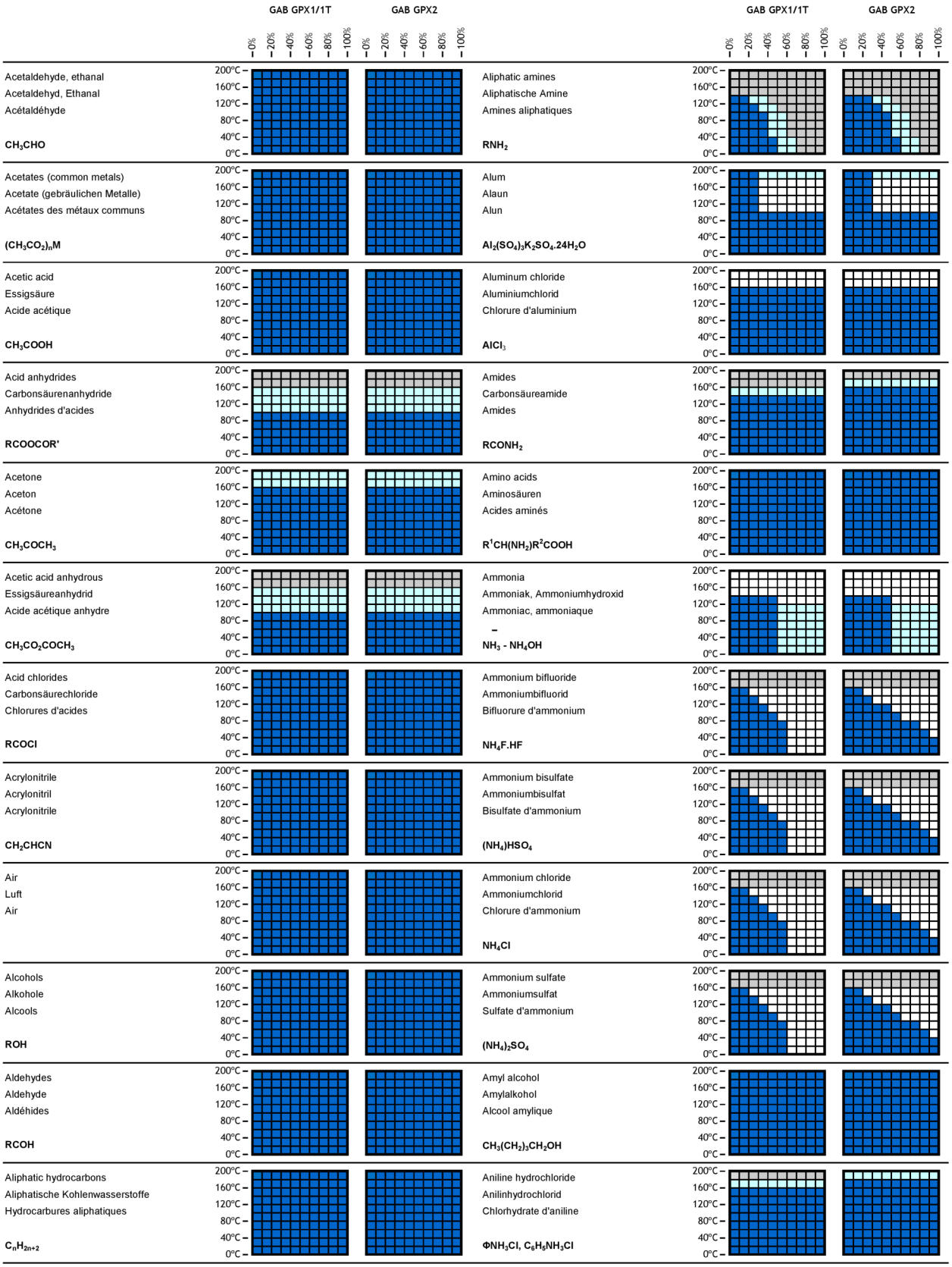

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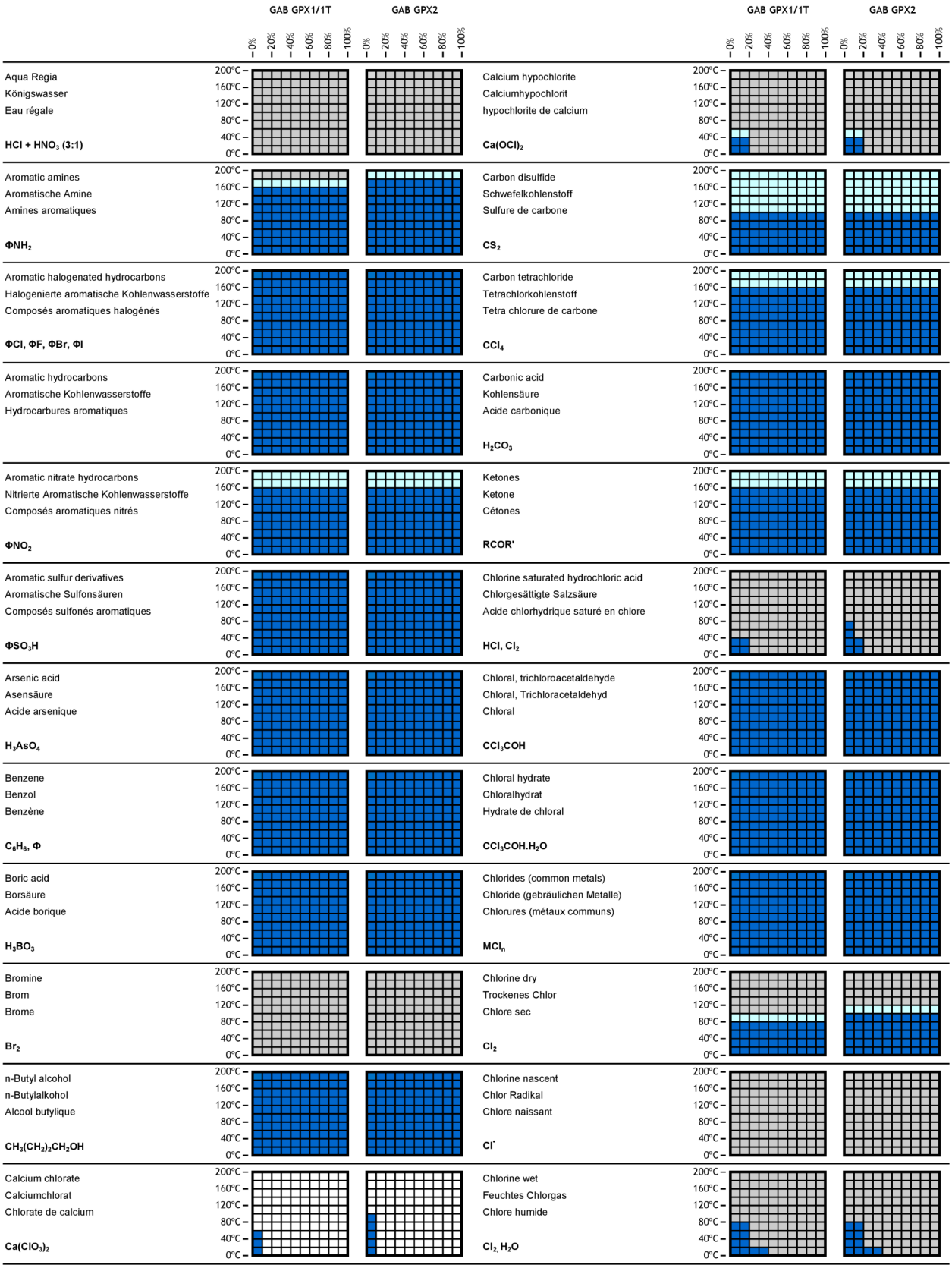

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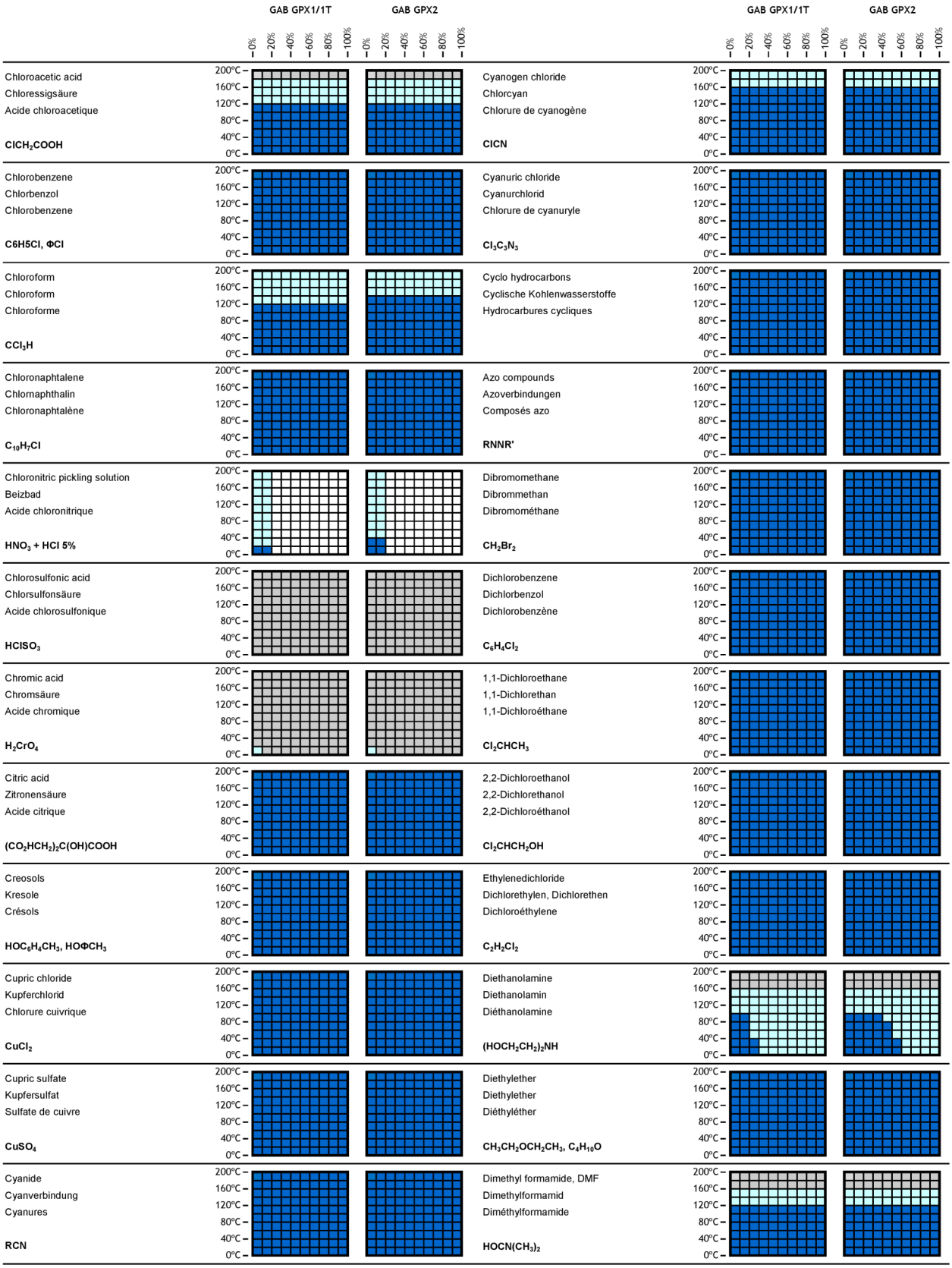

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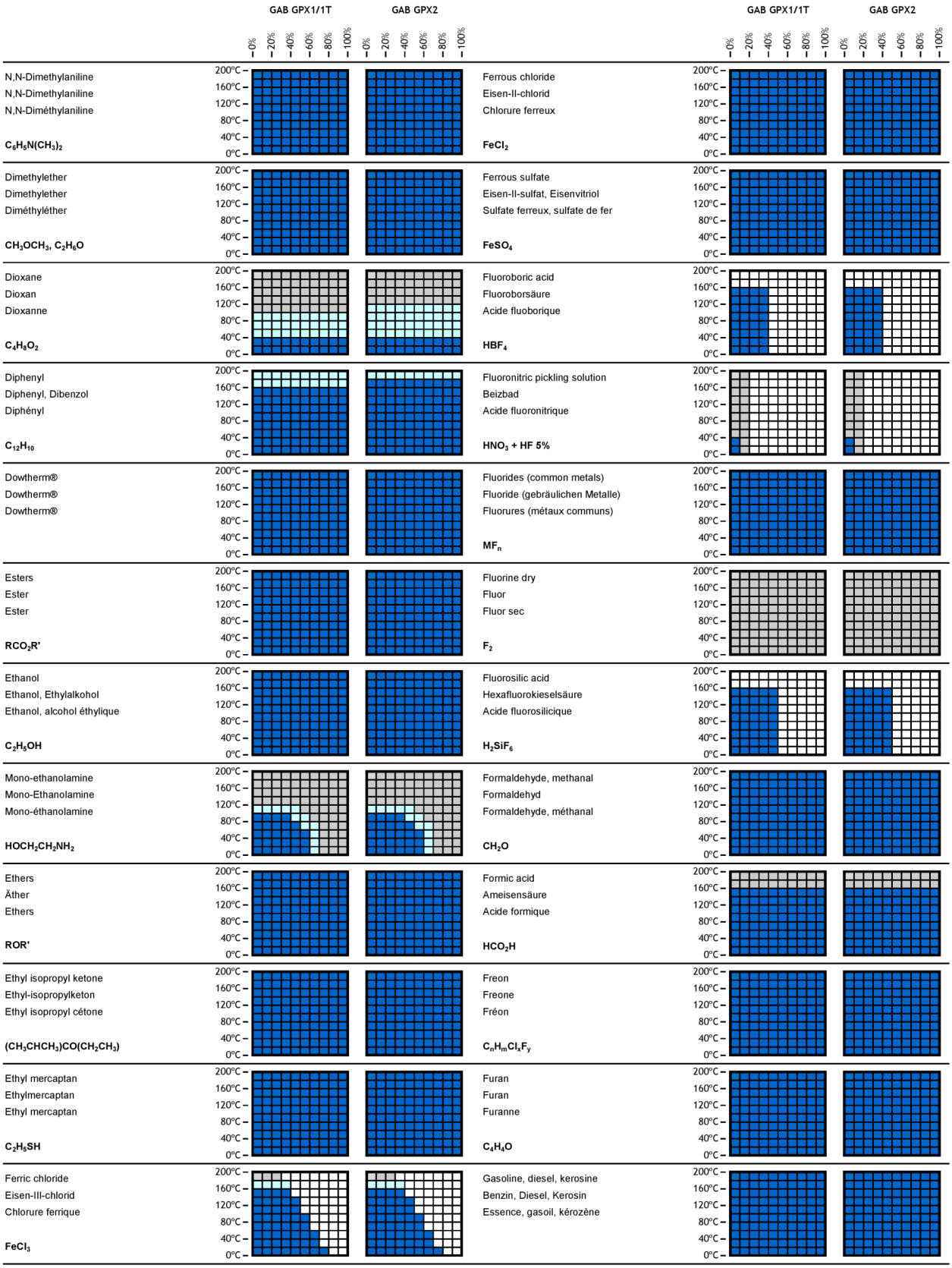

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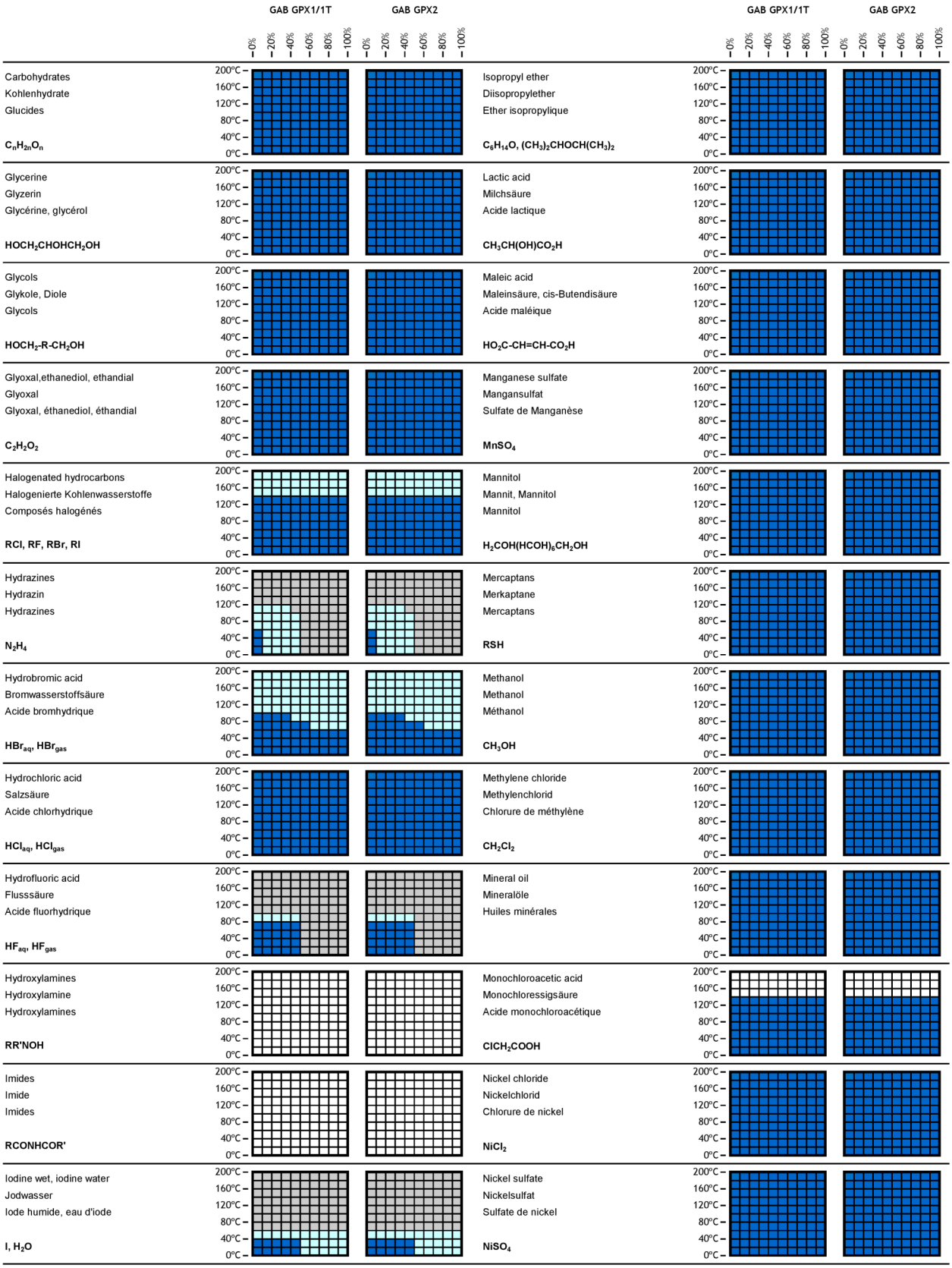
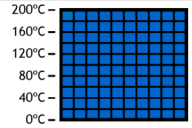
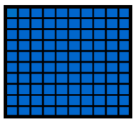
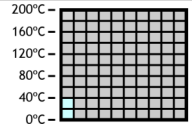
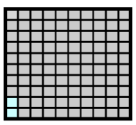
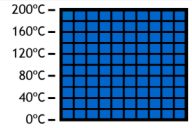
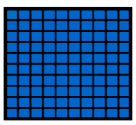
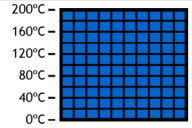
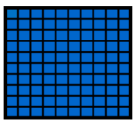
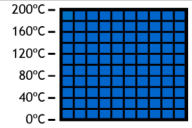
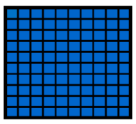
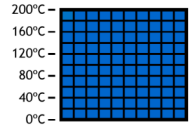
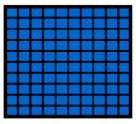
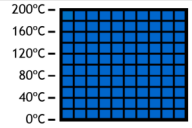
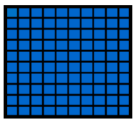
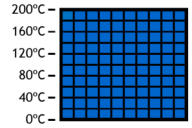
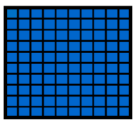
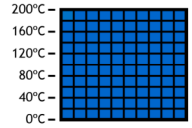
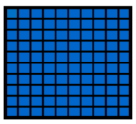
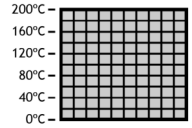
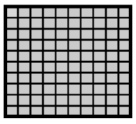
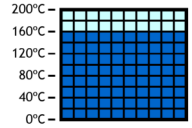
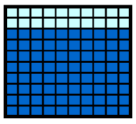
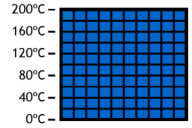
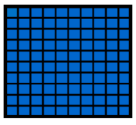
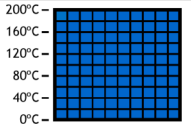
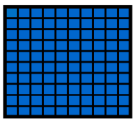
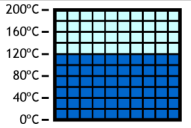
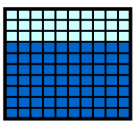
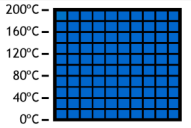
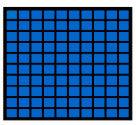
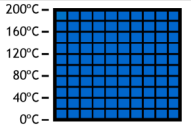
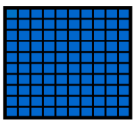
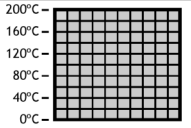
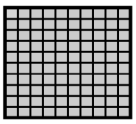
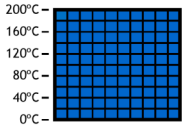
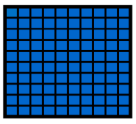
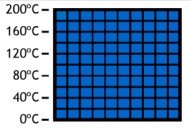
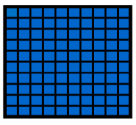
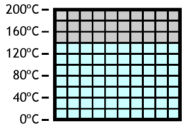
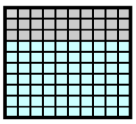
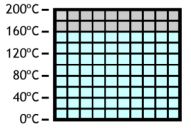
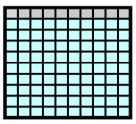
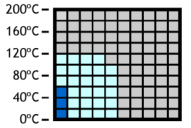
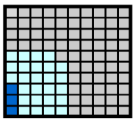
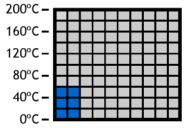
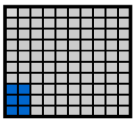
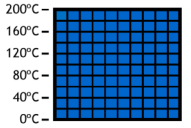
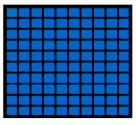
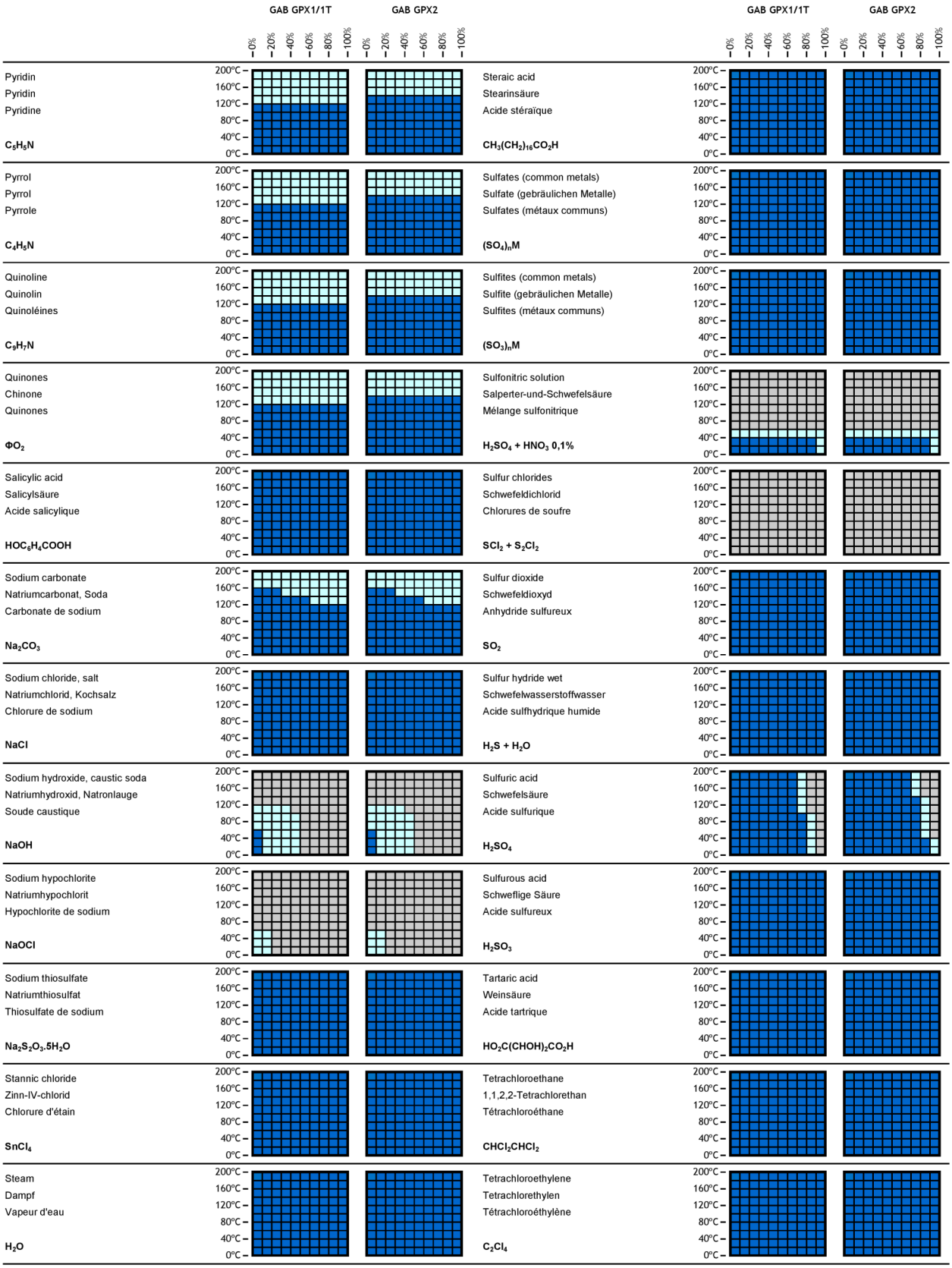
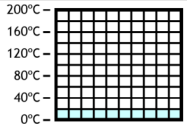
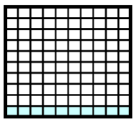
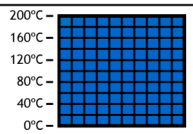
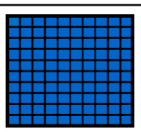
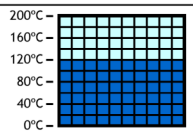
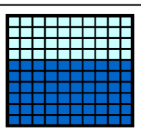
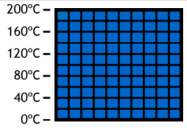
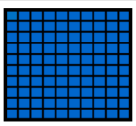
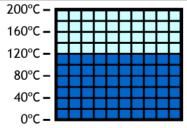
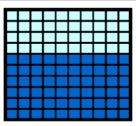


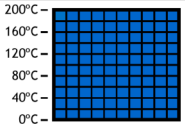
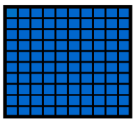
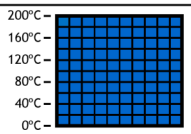
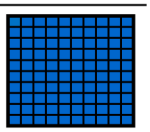
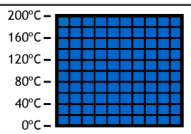
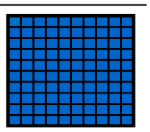
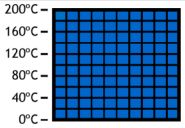
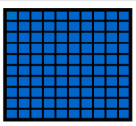
	GAB GPX1/1T	GAB GPX2
Nitrates (common metals) Nitrate (gebräulichen Metalle) Nitrates (métaux communs) **$(NO_3)_nM$**		
Nitric acid Salpetersäure Acide nitrique **HNO_3**		
Nitriles Nitrile Nitriles **RCN**		
Nitrite (common metals) Nitrite (gebräulichen Metalle) Nitrites (métaux communs) **$(NO_2)_nM$**		
Nitrobenzene Nitrobenzol Nitrobenzène **$C_6H_5NO_2$, ΦNO_2**		
Nitrochlorobenzene Para-Nitrochlorbenzol Para-nitrochlorobenzène **$ClC_6H_4NO_2$, $Cl\Phi NO_2$**		
Nitrotoluene Nitrotoluol Nitrotoluène **$CH_3C_6H_5NO_2$, $CH_3\Phi NO_2$**		
n-Octanol n-Octanol n-Octanol **$CH_3(CH_2)_6CH_2OH$**		
Oleic acid Ölsäure, cis-9-Octadecensäure Acide oléique **$CH_3(CH_2)_7HC{=}CH(CH_2)_7CO_2H$**		
Oleum Oleum Oléum **$H_2SO_4 + SO_3$**		
Organic acids Organische Säuren Acides organiques **R-COOH**		
Oxalic acid Oxalsäure, Ethandicarbonsäure Acide oxalique **$HO_2C\text{-}CO_2H$**		

	GAB GPX1/1T	GAB GPX2
Paraldehyde Paraldehyd Paraldéhyde **$(CH_3CHO)_3$**		
Phenols Phenole Phénols **ΦOH**		
Phosphoric acid Phosphorsäure Acide phosphorique **H_3PO_4**		
Phosgene, anhydrous Phosgen Phosgène anhydre **$COCl_2$**		
Phosphatization bath Phosphatierungsbad Bain de phosphatation **$H_2SO_4 + H_3PO_4$**		
Phosphorus chlorides Phosphor-III-chlorid Chlorures de phosphore **PCl_3**		
Phosphorus oxychloride Phosphorylchlorid Oxychlorures de phosphore **$POCl_3$**		
Potassium bichromate Kaliumdichromat Bichromate de potassium **$K_2Cr_2O_7$**		
Potassium chlorate Kaliumchlorat Chlorate de potassium **$KClO_3$**		
Potassium hydroxyde, potash Kaliumhydroxyd, Kalilauge Hydroxyde de potassium **KOH**		
Potassium hypochlorite Kaliumhypochlorit hypochlorite de potassium **KOCl**		
Propanol 2, isopropanol Isopropylalkohol, Propan-2-ol Alcool isopropylique **$CH_3CHOHCH_3$**		

Corrosion Tables
Korrosionstabelle
Tables de corrosion



	GAB GPX1/1T	GAB GPX2
Tetrahydrofuran, THF Tetrahydrofuran, THF Tétrahydrofurane, THF **C_4H_8O**		
Thionylchloride Thionylchlorid Chlorure de thionyle **$SOCl_2$**		
Thiophen Thiophen Thiphène **C_4H_4S**		
Toluene Toluol Toluène **$C_6H_5CH_3$, ΦCH_3**		
Trichloroethane Trichlorethan Trichloréthane **$CHCl_2CH_2Cl$**		

	GAB GPX1/1T	GAB GPX2
Vinyl chloride Vinylchlorid, Chlorethen Chlorure de vinyle **CH_2=CHCl**		
Xylol, dimethylbenzene, xylene Xylol, Dimethylbenzol Xylène, diméthylbenzène **$(CH_3)_2C_6H_4$, $\Phi(CH_3)_2$**		
Zinc chloride Zinkchlorid Chlorure de zinc **$ZnCl_2$**		
Zinc sulfate Zinksulfat Sulfate de zinc **$ZnSO_4$**