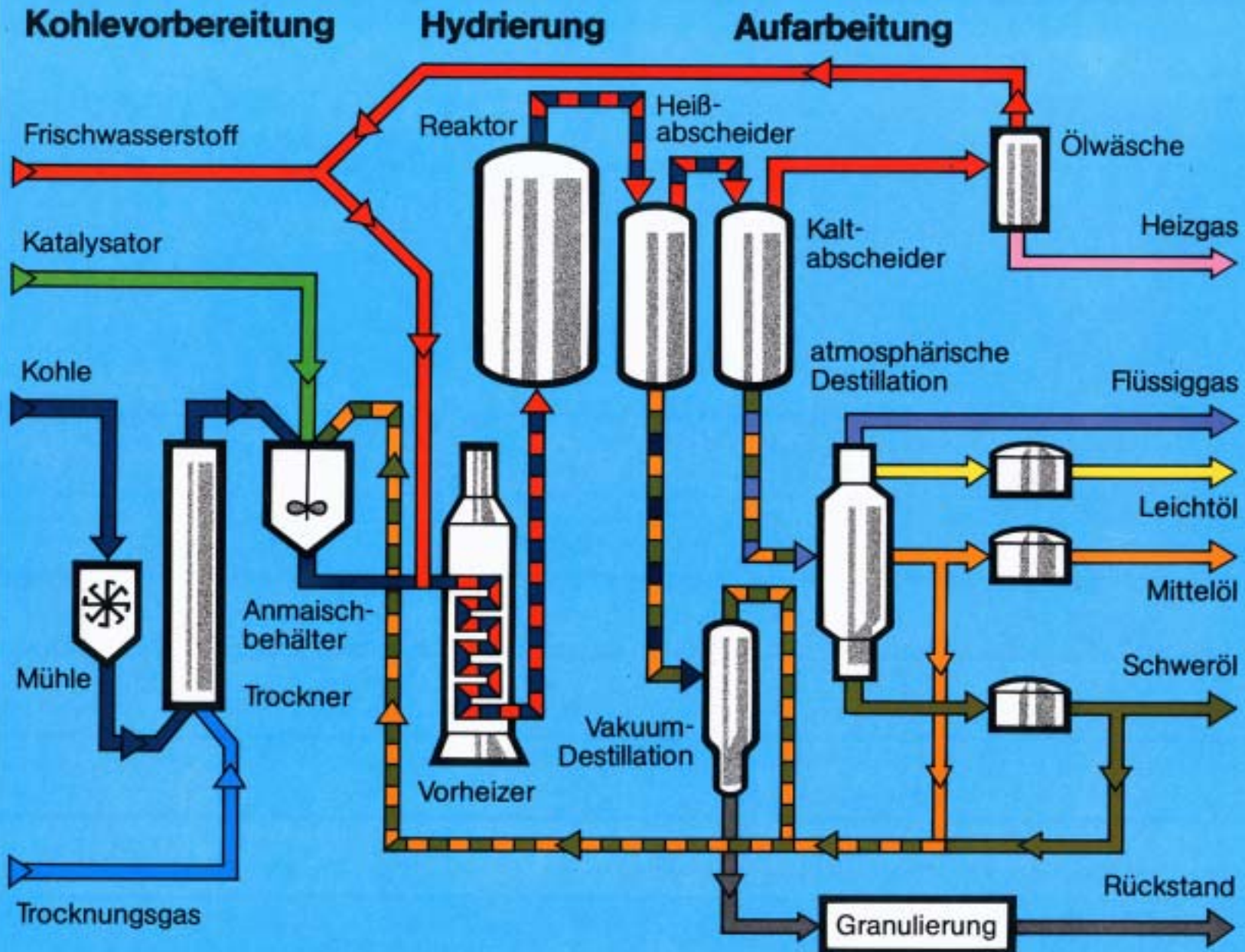


Homologe Reihe der Alkene, C_nH_{2n}

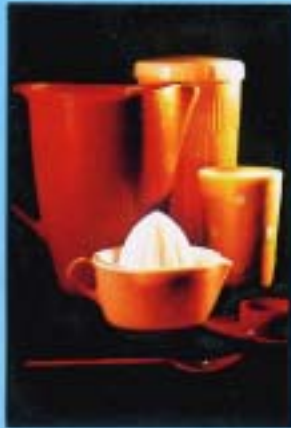
Formel	Name	Sdp. °C	Smp. °C
$H_2C=CH_2$	Ethen (Ethylen)*	-140	
$H_3C-CH=CH_2$	Propen (Propylen)*	-42	
$H_3C-CH_2-CH=CH_2$	1-Buten (Butylen)*	-6.3	
$H_3C-(CH_2)_2-CH=CH_2$	1-Penten	30	
$H_3C-(CH_2)_7-CH=CH_2$	1-Decen	170.5	-66.3
$H_3C-(CH_2)_{12}-CH=CH_2$	1-Pentadecen	268	2 – 8

()* ältere Bezeichnung

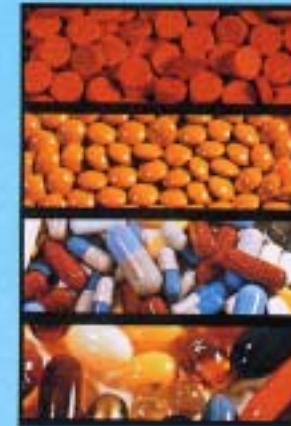
FLIESSBILD DER KOHLEÖL-ANLAGE



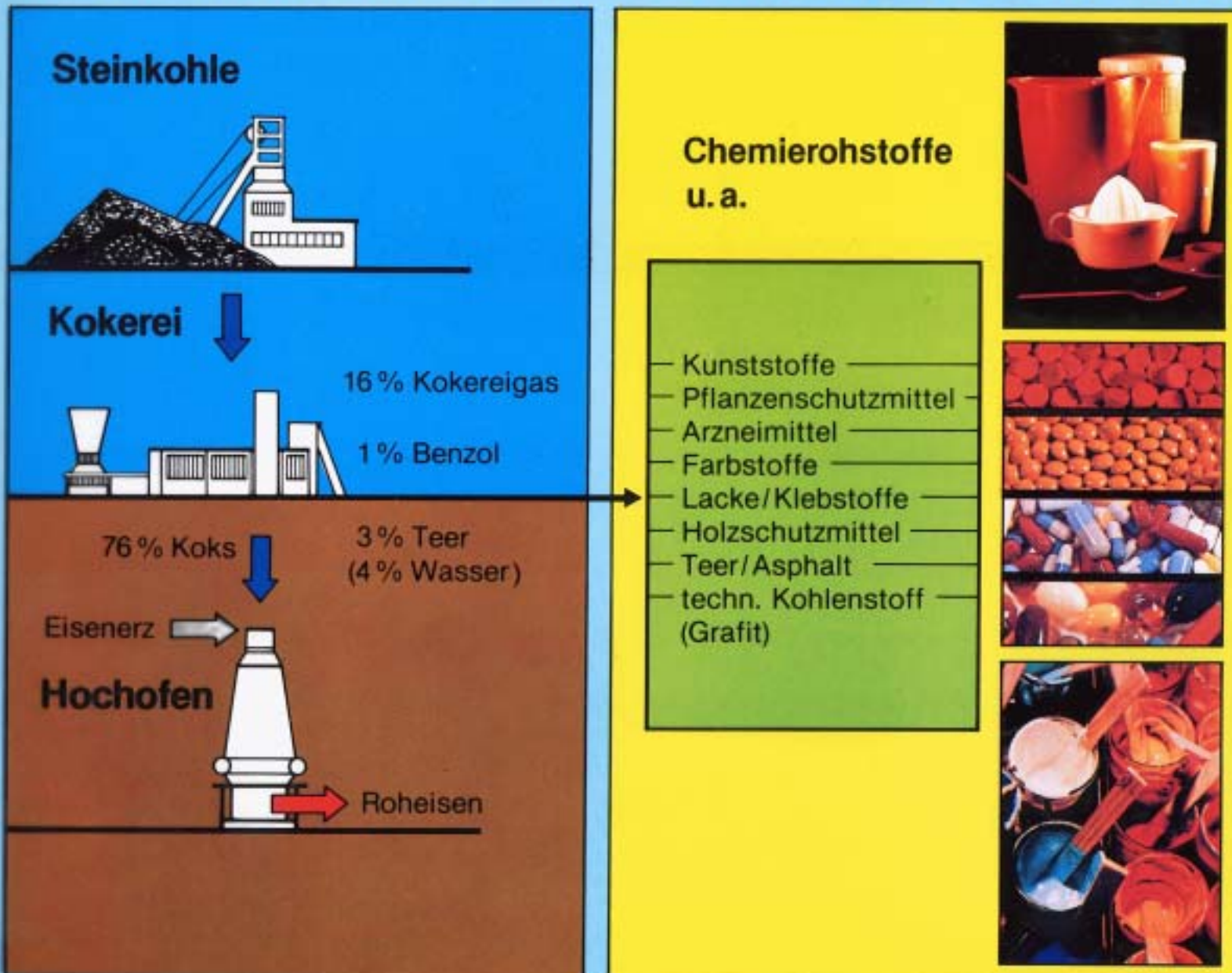
GEWINNUNG VON CHEMIEROHSTOFFEN AUS KOHLE ODER MINERALÖL



K O H L E	— Wasserstoff/Ammoniak —	M I N E R A L Ö L
	— Chemiegrundstoffe — Methan, Methanol, Essigsäure, Glykole	
	— Kunststoffe —	
	— Pflanzenschutzmittel —	
	— Heilmittel —	
	— Waschmittel —	
	— Farbstoffe, Lacke, Klebstoffe	
	— Benzin/Dieselöl —	
	— Lösungsmittel —	
	— Oele, Holzschutzmittel —	
	— Wachse, Schmierstoffe —	
	— Teer, Pech, Ruß —	

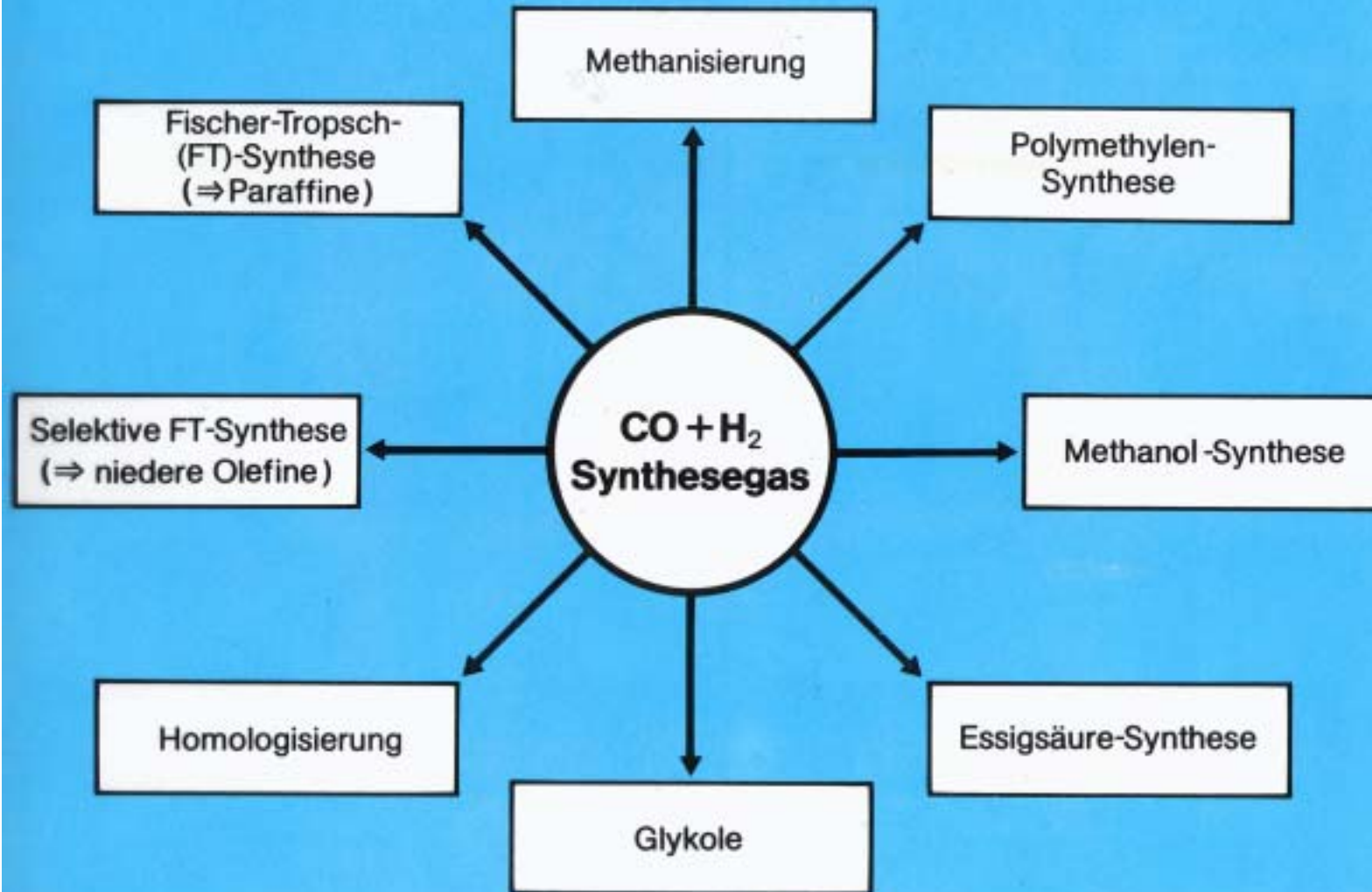


CHEMIEROHSTOFFE DURCH STEINKOHLLENVERKOKUNG

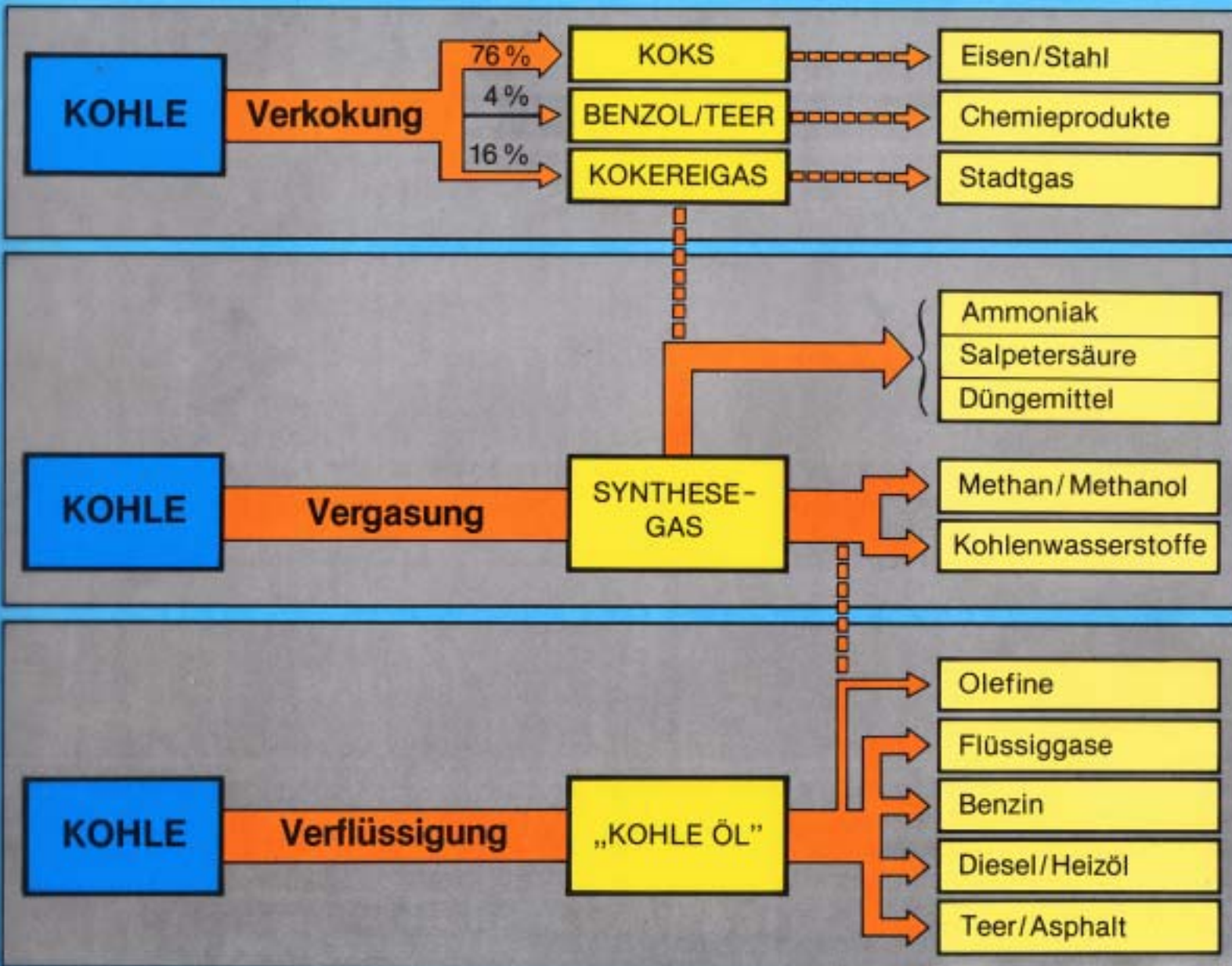




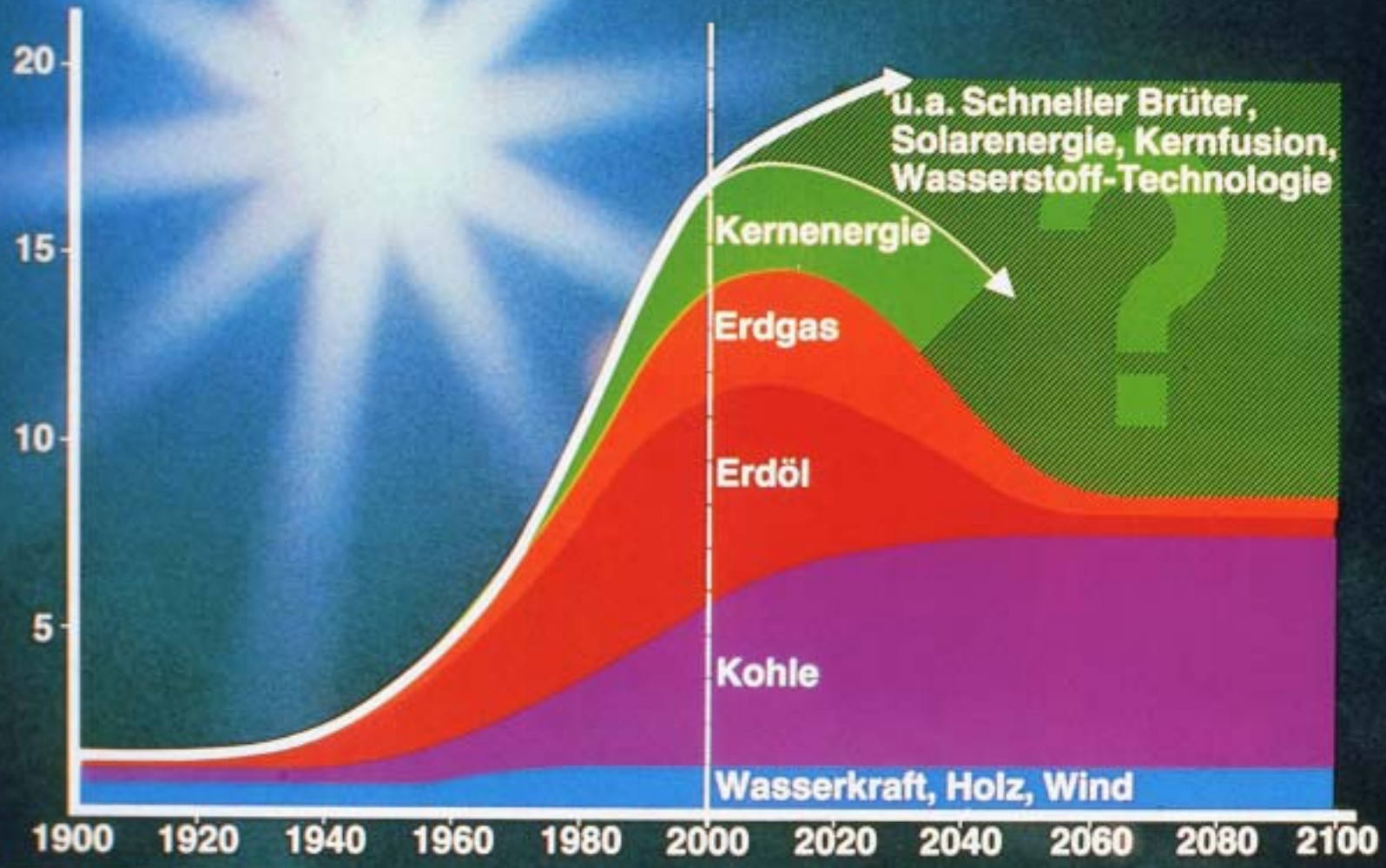
MÖGLICHKEITEN DER SYNTHESSEGAS-CHEMIE



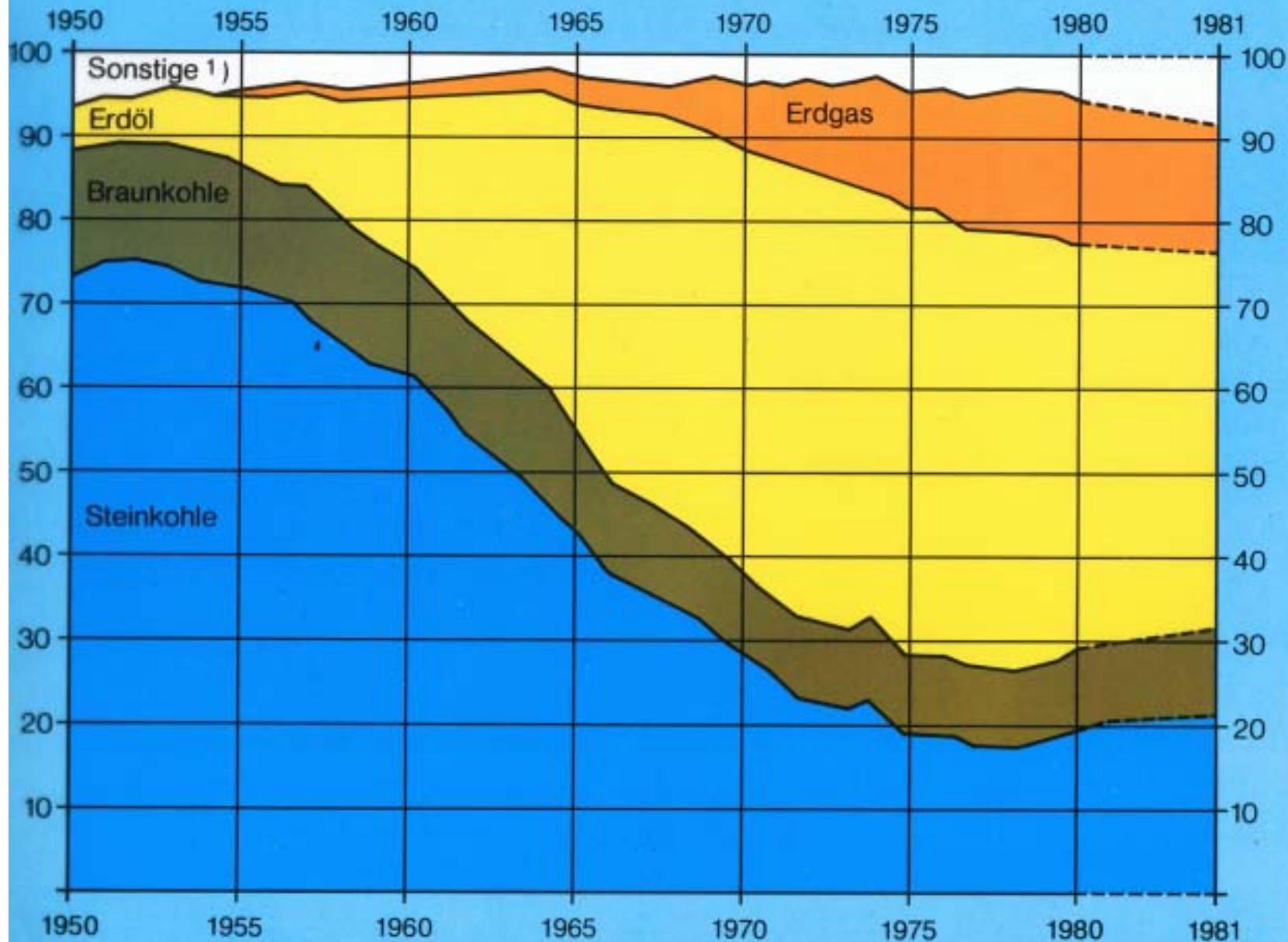
GRUNDVERFAHREN DER KOHLEVEREDLUNG



Entwicklung des Welt-Primärenergie-Verbrauchs in Mrd. tSKE



PRIMÄR - ENERGIEVERBRAUCH IN DER BUNDESREPUBLIK DEUTSCHLAND NACH ENERGIEARTEN

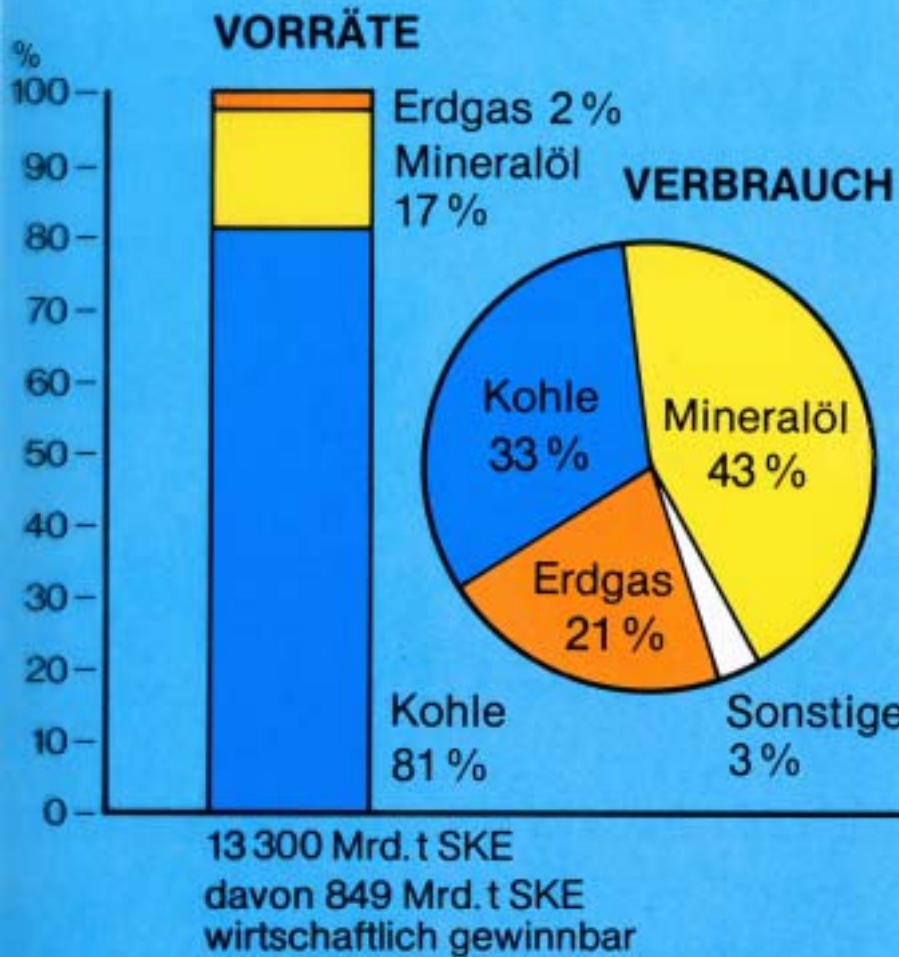


1) Wasserkraft, Kernenergie, sonstige Energieträger

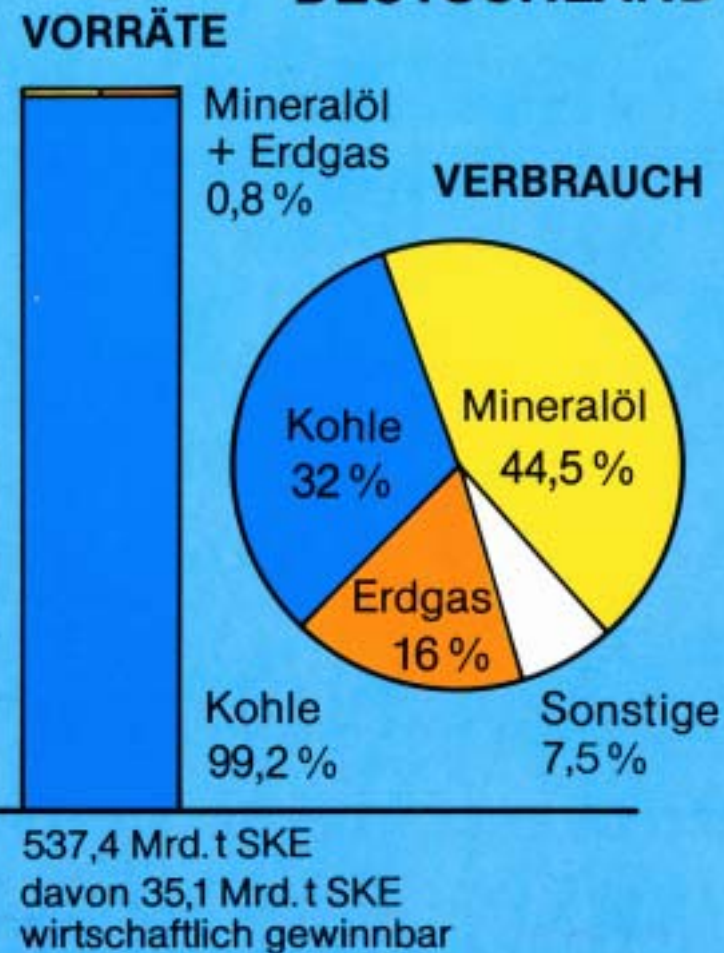


ENERGIE - VORRÄTE und - VERBRAUCH (1981)

WELT



BUNDESREPUBLIK DEUTSCHLAND



SKE = Steinkohleneinheit; 1 t SKE = 29,3 Mio KJ



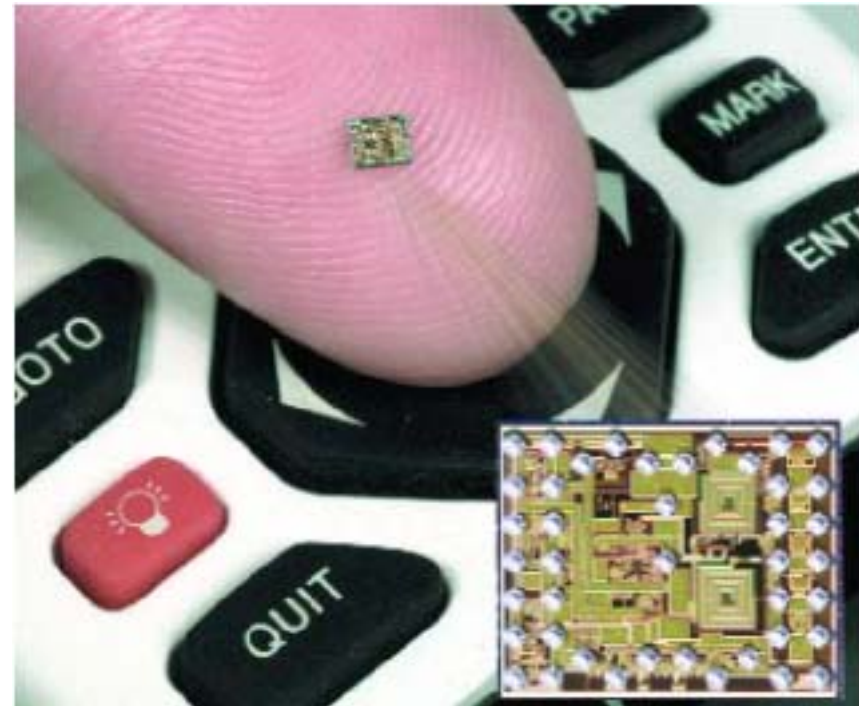


Ein ausgefalter Textilmix erlaubt es Paragleitern, hoch über dem Erdboden zu schweben. Während das Obersegel mit einem speziellen Nylongewebe Wasser abweist, muss das Nylon des Untersegels Windstößen und Auftriebskräften standhalten.





Ohne Sand läuft kein Computer


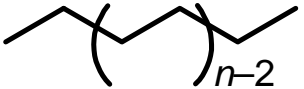
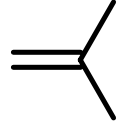
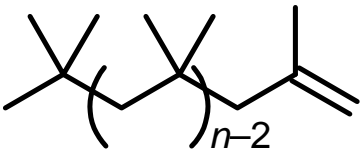
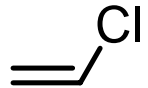
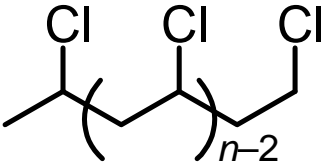

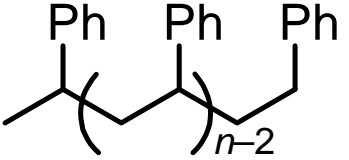


Siliziumstab für die
Chip-Produktion

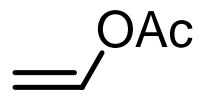
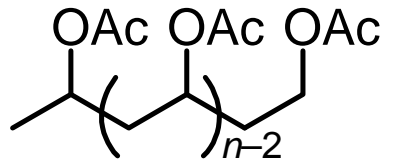
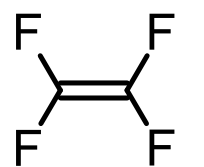
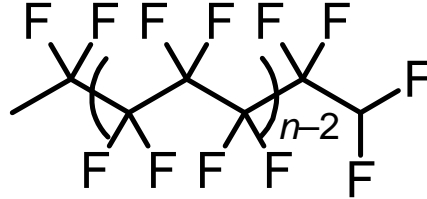
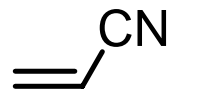
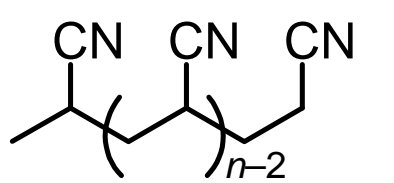
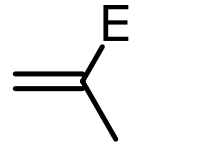
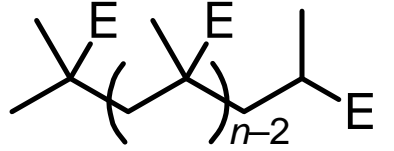




Vinylpolymerisation

Monomer		Polymer	Name
$n \times$  Ethylen	\longrightarrow		Polyethylen
$n \times$  Isobuten			Polyisobutylen
$n \times$  Vinylchlorid			Polyvinylchlorid (PVC)
$n \times$  Styrol			Polystyrol

Vinylpolymerisation

Monomer	Polymer	Name
$n \times$  Vinylacetat		$\text{OAc} = \text{---} \text{O} \text{---} \text{C}(=\text{O}) \text{CH}_3$ Polyvinylacetat
$n \times$  Tetrafluorethen		"Teflon"
$n \times$  Acrylnitril		Polyacrylnitril (Orlon, Dralon)
$n \times$  Methacrylmethylester $\text{E} = \text{CO}_2\text{CH}_3$		Polymethacrylmethylester (PMM $\hat{=}$ Plexiglas)