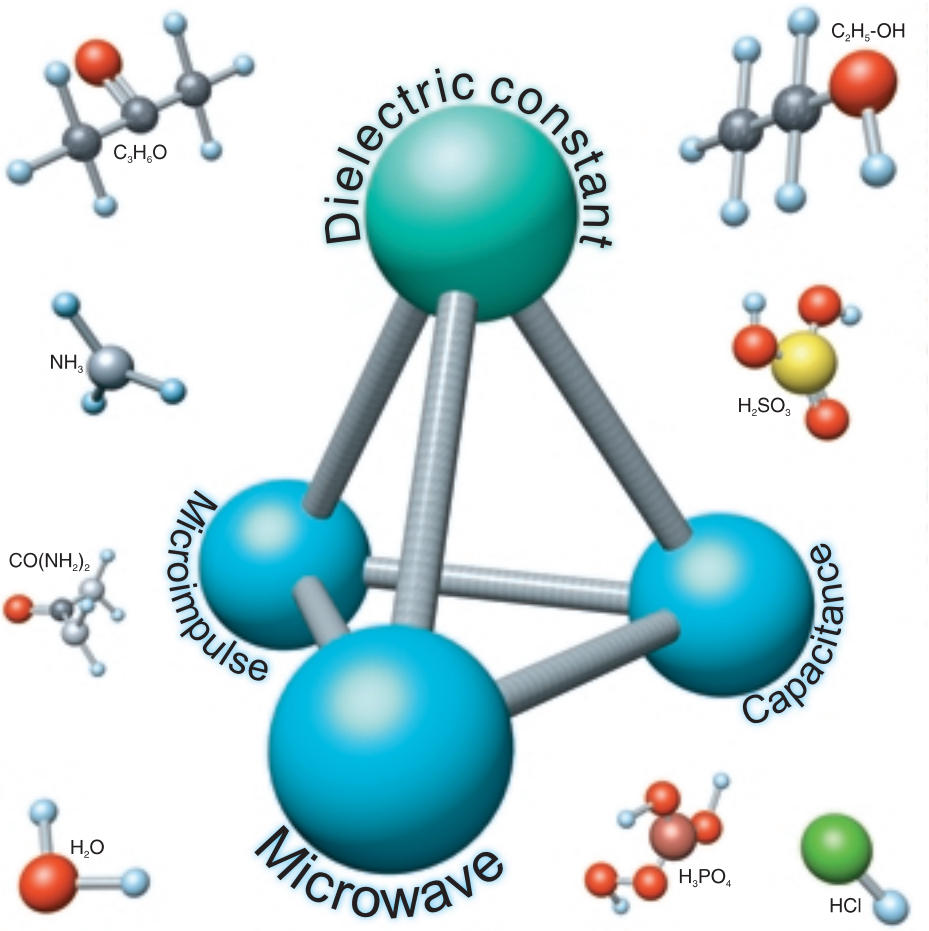
Relative dielectric constant ε_r (dk value) of liquids and solid materials



Endress+Hauser

Imprint

Editor
Endress+Hauser Messtechnik GmbH+Co. KG
Colmarer Str. 6
D - 79576 Weil am Rhein
Tel.: ++49 7621 975-01
Fax: ++49 7621 975-555
E-Mail: info@de.endress.com
http://www.de.endress.com

Weil am Rhein, Mai 2000

SD 106F/00/en/06.00
52007145

Introduction to the manual of dielectric values

The relative dielectric constant (the dk-value) of liquids and bulk solid materials can – next to other influencing factors – be decisive when selecting a suitable technology for level measurement: This is where competent advice is required, but what distinguishes a competent partner? It is competence in product development, experience in the application, correct consultation and reliable service which distinguishes a reliable partner for process control technology.

In this booklet, Endress+Hauser endeavours to provide you with a listing of important substances which are commonly used in industry. We realise of course that such a listing is never complete in its scope. If you have the measured dielectric constant value for a product which is not in the book, we ask that you send us this value (the address can be found under the impressum). This will enable us to update the information in the next edition.

The reader can look for his product in two ways – either by looking for the trade name or the nomenclature (IUPAC). The dielectric constant values are listed with two separate measurement frequencies: at 1 MHz and at 100 kHz. Please understand the values in the book as standard values for individual measuring processes, as these are not absolute values. Should you find the measured value for your product at another frequency then this frequency can be considered the standard value. The next pages list the following measuring principles: "capacitive level measurement"and "Time Of Flight principles". The dielectric constant is important for the correct functioning in these measurements.

The publisher

Dielectric characteristics

The dielectric constant ε
The dielectric constant of an insulating material is the result of the dielectric number ε_r and the dielectric constant ε_o in a vacuum.

$\varepsilon = \varepsilon_r * \varepsilon_0$

$\varepsilon_0 = 0{,}08854$ pF /cm = $8{,}85419 * 10^{-12}$ F / m

The dielectric number ε_r
The dielectric number of an insulating material is the relationship of the capacitance C_x of a capacitor where the area between the electrodes is completely and exclusively filled with the insulating material and the capacitance C_0 of the electrode alignment in a vacuum.
The following formula applies:

$\varepsilon_r = C_x / C_0$

The dielectric number is a measure for the polarisation power of an insulating material.

Measuring principle
The dielectric characteristics are usually determined by a change in capacitance using special capacitors, whereby the different materials to be investigated are used as dielectricum.
The test body is aligned as dielectricum between two electrodes fitted closely to the surface of the material. The dielectric number is calculated on hand of the measured capacitance within the electrode alignment and its geometric dimensions.

Level measurement with capacitive probes

The capacitive measuring principle works on the basis of a capacitor. An alternating current produces an electrical field between two electrodes. The characteristic value of a capacitor is its capacitance C (pF), which again is determined by diverse factors:

- distance of the electrodes (s)
- area of the electrode surface (A)
- dielectricum, of the material between the electrodes

For the measurement of levels, this capacitor is formed from the conducting container wall and the capacitive probe in the container which is used in the measurement. If this probe is built into the container then the distance of the electrodes as well as the area of the electrode surface is fixed and there is no change. The capacitance is in that case dependent only on the characteristics of the material in the container.

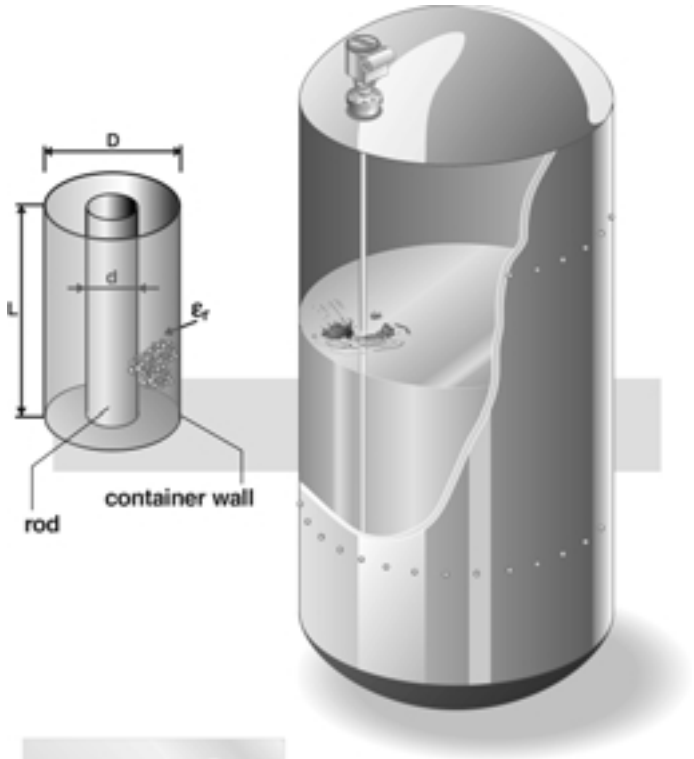
$$C = \frac{2\pi \cdot \varepsilon_0 \cdot \varepsilon_r \cdot 2}{\ln (D/d)}$$

The ε_0 (electric field constant) is a natural constant.

ε_0 = 8,854 pF / m

The relative dielectric constant ε_r (shortened to dk in measurement technology), is a characteristic material constant suitable for every material and describes the relationship of how much the capacitance of a capacitor changes when filled with a certain material in relationship to a capacitor filled with air. ε_r is a number without dimensions. Air, per definition, has a ε_r of 1. The dielectric constant of liquids and solid materials is always more than 1. If for example, the air which is present between the probe and container wall is replaced by another material during the filling operation, the capacitance always increases.

In order to ensure that a change of capacitance in the probe is produced in sufficient magnitude for the electronics to respond, the dielectric constant of the product to be measured must be sufficiently large. With dielectric constants larger than 2 the application is usually uncritical and easy to handle. Measuring products with dielectric constants smaller than 2, sufficiently large changes of capacitance must be achieved with for example, the use of grounding pipes (increase in the sensitivity of the probe by reducing the distance of the plates) or a suitably large probe.
Occasionally, another measuring principle may have to be used. The dielectric constant however does not affect the measurement with conducting materials. In these cases a sufficiently large change in capacitance is always given.



$$C = \frac{2\pi\ \varepsilon_o\ \varepsilon_r\ L}{\ln D/d}$$

Level measurement with microwaves

Light is the best known wave in the electromagnetic spectrum; everyone is confronted with it every day. Microwaves are waves produced electrotechnically within a defined frequency range. The microwave level measuring instrument from Endress+Hauser for example transmits with a frequency of app. 6 GHz and app. 26 GHz. Level measurement uses microwave technology to detect material surfaces.

The physical characteristics of microwaves are unique. Microwaves are practically not influenced by diverse gases. They function practically problem-free in a vacuum, they are negligibly influenced by high temperatures and pressures, build-up and condensate. These characteristics make microwave technology one of the most universal in comparison with other measuring principles.

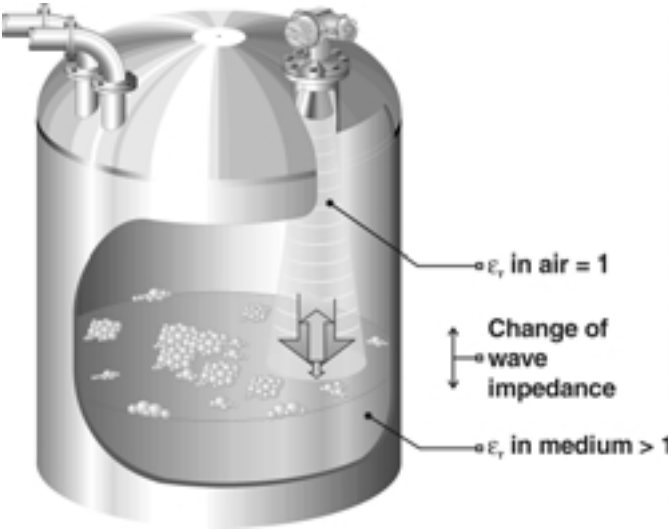
The microwave principle

Basically, the microwave principle is a tracking system working with very short, electromagnetic waves.

This principle is also called Radar measurement. Radar information is transmitted and gathered over a channel consisting of a transmitter, transmitter antenna, target, receiving antenna and receiver. The transmitter is a source of high frequency output which is radiated in bundled form. Only a portion of this output reaches the radar receiver. Reflection may be diffuse or complete, depending on the geometry, structural and material characteristics.

The microwave measurement process is a time of flight process, i. e. the measuring instrument determines the running time of the microwaves and changes it into a level proportional 0/4…20 mA signal.

Microwave measurement in an unobstructed tank works as of a DK value of 2. Measurement in a pipe (bypass/surge pipe) requires a DK value as of c. 1.4.


ε_r in air = 1
Change of wave impedance
ε_r in medium > 1

Level measurement with micro-impulses
As of 1998, Endress+Hauser offers measuring instruments operating on the time of flight principle (micro-impulses), on the world markets. The typical applications here are finely grained bulk materials up to max. 20 mm granulation size, having a minimum dielectric value of 1.8. This includes e. g. lime, cement, gravel, grains, sugar, coal, and fly ash.

The micro-impulse principle
Very short impulses with a high repetitive frequency (460 kHz) are irradiated from the surface of a probe. The impulses may be visualised as energy packages with a diameter of c. 30 cm, running along the probe with the speed of light. As the environment around the probe changes with the presence of bulk materials, the electrical impedance also changes. This results in a partial reflection of the impulse, measured by a high frequency sampler after reception.

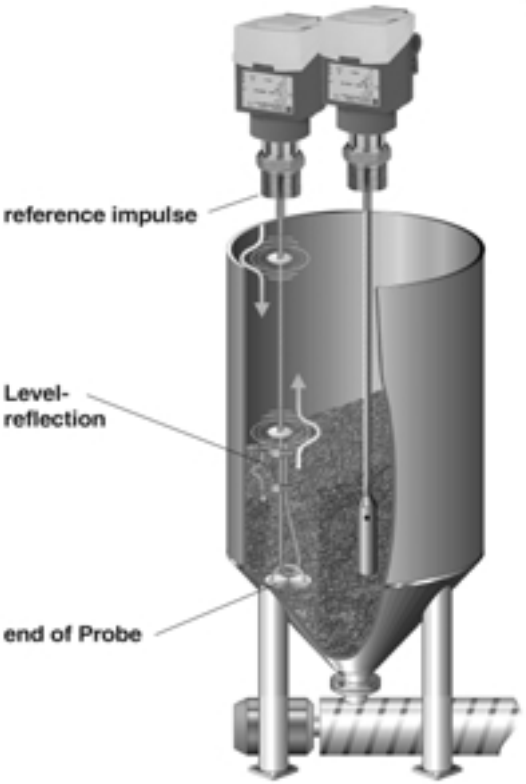
The time between the transmitted and the reflected impulse is the measure for the distance between the process connection (flange or thread) and the level of the material. As the rise time of the pulse is extremely short, the emitted frequency band is very wide; the "Time domain reflectory (tdr)" is used for signal recognition.
With this method, a ±1 % tolerance in measurement (over the entire range) is guaranteed. The micro-impulse process reliably recognises solids as of a DK value of 1.8.

$$D = c \cdot \frac{\Delta t}{2}$$

D = distance

c = speed of light

t = time-of-flight difference between the time of transmitting and receiving



A

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
ABS granulate, black		1,7		RT	RT	654	0,654
acetal (1,1-diethoxyethane)	$C_6H_{14}O_2$		3,8	25	77		
acetaldehyde	C_2H_4O		21,8	10	50		
acetaldehyde	C_2H_4O		18,55	15	59		
acetaldehyde	C_2H_4O		14,8	20	68		
acetaldoxim	C_2H_5NO		3	23	73,4		
acetamide	C_2H_5NO		59,2	77	170,6		
acetic acid	CH_3COOH		24	20	68		
acetic acid	CH_3COOH		6,15	20	68		
acetic acid	CH_3COOH		6,195	25	77		
acetic acid	CH_3COOH		6,6	70	158		
acetic anhydride	$C_4H_6O_3$		17,9	20	68		
aceto-acetic ethyl ester	$C_6H_{10}O_3$		15,7	22	71,6		
acetol	$C_3H_6O_2$		3,59	21	69,8		
acetone	C_3H_6O		21,5	20	68		
acetophenonoxyl ethylester	$C_{12}H_{12}O_4$		7,9	46	114,8		
acetoxy-3-brombutane	$C_6H_{11}BrO_2$		7,268	25	77		
acetyl bromide	C_2H_3BrO		16,2	20	68		
acetyl cellulose			1,62	20	68		
acetyl chloride	C_2H_3ClO		15,9	20	68		
acetyl lacto nitrile	$C_5H_7O_2N$		18,9	20	68		
aconite	$C_{10}H_{14}O_6$		6,29	20	68		
Acronal 290 D			41	20	68		
Acrotherm oil			23,5	20	68		
actic-bentonite Geko old and normal			5,67	20	68		
activated charcoal			12	20	68		
activated coke pellets		14		RT	RT		
activator			23,5	20	68		
adhesive F-4			8,03	20	68		
adipic acid	$C_6H_{10}O_4$		1,8	20	68		
Aerosil			1,03	20	68		
Aerosil		1,2		RT	RT	119	0,119
Ago-Rapid Neo-Ultra			3	20	68		
Ajax			2,3	20	68		
alloocimen	$C_{10}H_{16}$		2,557	25	77		
alloocimen	$C_{10}H_{16}$		20,6	21	69,8		
alloocimen	$C_{10}H_{16}$		7,09	30	86		
allyl iodide	C_3H_5I		6,1	19	66,2		
allylic mustard oil	C_4H_5NS		17,2	20	68		
alumina			2,26	20	68		
alumina, heavy		2,2		RT	RT	1090	1,09
aluminium bromide	$AlBr_3$		3,38	100	212		
aluminium foil			10,83	20	68		
aluminium hydroxide	$Al(OH)_3$		2,5	20	68		
aluminium oxide	Al_2O_3	2,6		RT	RT	1114	1,114
aluminium oxide + 15 % water	Al_2O_3		10,6	20	68		
aluminium oxide + 25 % water	Al_2O_3		13,5	20	68		
aluminium oxide, dry	Al_2O_3		9,3	20	68		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
aluminium potassium sulphate	$AlKO_8S_2$		4,2	60	140		
aluminium sulphate	$Al_2(SO_4)_3$		2,63	20	68		
aluminium swarf	Al		7,3	20	68		
alumuna, fresh		2,6		RT	RT	1056	1,056
Ambre Solaire			3	20	68		
amino-2-methylpropane	$C_4H_{11}N$		4,4	21	69,8		
aminododecane	$C_{12}H_{27}N$		3,13	30	86		
aminododecane	$C_{12}H_{27}N$		3,1	35	95		
aminofusinforte			22	25	77		
aminohexadecane	$C_{16}H_{35}N$		2,71	55	131		
amino-octadecane	$C_{18}H_{39}N$		2,67	53	127,4		
amino-octadecane	$C_{18}H_{39}N$		2,64	58	136,4		
aminooctane	$C_8H_{19}N$		4,05	2	35,6		
aminooctane	$C_8H_{19}N$		3,9	12,3	54,14		
aminopentane	$C_5H_{13}N$		4,5	22	71,6		
amino-tetradecane	$C_{14}H_{31}N$		2,9	40	104		
aminotoluene (-1)	C_7H_9N		4,6	20	68		
aminotoluene (-2)	C_7H_9N		6,34	18	64,4		
aminotoluene (-2)	C_7H_9N		5,71	58	136,4		
aminotoluene (-3)	C_7H_9N		5,95	20	68		
aminotoluene (-3)	C_7H_9N		5,45	58	136,4		
aminotoluene (-4)	C_7H_9N		5,07	50	122		
aminotoluene (-4)	C_7H_9N		4,88	58	136,4		
ammonia	NH_3		25	-77,7	-107,86		
ammonia	NH_3		22,7	-50	-58		
ammonia	NH_3		22,38	-33	-27,4		
ammonia	NH_3		15,9	15	59		
ammonia	NH_3		14,9	25	77		
ammonia salt			4,33	20	68		
ammonia water 25%	NH_3		31,6	20	68		
amyl acetate	$C_7H_{14}O_2$		4,81	19	66,2		
amyl alcohol	$C_5H_{11}OH$		15,95	20	68		
amyl alcohol	$C_5H_{11}OH$		14,8	20	68		
amyl alcohol	$C_5H_{11}OH$		14,4	25	77		
amyl alcohol (tert.)	$C_5H_{12}O$		5,69	25	77		
amyl alcohol (tert.)	$C_5H_{12}O$		6,695	30	86		
amyl benzoate	$C_{12}H_{16}O_2$		5,03	19	66,2		
amyl benzoate	$C_{12}H_{16}O_2$		5,03	19	66,2		
amyl bromide, pentyl bromide	$C_5H_{11}Br$		9,91	-90,3	-130,54		
amyl bromide, pentyl bromide	$C_5H_{11}Br$		6,31	25	77		
amyl chloride	$C_5H_{11}Cl$		6,6	11	51,8		
amyl chloride (tert.)	$C_5H_{11}Cl$		12,31	-50,4	-58,72		
amyl chloride (tert.)	$C_5H_{11}Cl$		9,3	16	60,8		
amyl cyanide	$C_6H_{11}N$		15,5	22	71,6		
amyl fluoride	C_5H11F		4,242	20	68		
amyl formate	$C_6H_{12}O_2$		5,61	19	66,2		
amyl formate	$C_6H_{12}O_2$		6,49	25	77		
amyl nitrate	$C_5H_{11}O_3N$		9	18	64,4		
amyl sulphide	$C_{10}H_{22}S$		3,826	25	77		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
amyl sulphide	$C_{10}H_{22}S$		3,594	50	122		
amyl thiocyanate	$C_6H_{11}SN$		17,1	19,5	67,1		
aniline	C_6H_7N		7,09	15	59		
aniline	C_6H_7N		7,07	20	68		
aniline	C_6H_7N		6,987	25	77		
aniline	C_6H_7N		6,3	50	122		
aniline	C_6H_7N		6,2	58	136,4		
aniline	C_6H_7N		5,93	70	158		
animal feed with molasses, high quality			3,6	20	68		
animal feed, high-quality			4,4	20	68		
animal feed, meal			2,4	20	68		
anisaldehyde	$C_8H_8O_2$		22,3	20	68		
anisaldehyde	$C_8H_8O_2$		10,4	248	478,4		
anisaldoxime	$C_8H_9O_2N$		9,28	63	145,4		
anisaldoxime	$C_8H_9O_2N$		10,9	130	266		
anisaldoxime	$C_8H_9O_2N$		4,41	20	68		
anisaldoxime	$C_8H_9O_2N$		4,38	25	77		
anisaldoxime	$C_8H_9O_2N$		4,314	30	86		
anisaldoxime	$C_8H_9O_2N$		3,89	70	158		
anisole	C_7H_8O		4,5	15	59		
annol	$C_6H_5CH(CH_3)_2$		1,972	20	68		
anthracite			3,2	20	68		
antiblue lacquer			2,75	20	68		
antimony hydride	SbH_3		2,93	-80	-112		
antimony hydride	SbH_3		2,58	-50	-58		
antimony hydride	SbH_3		1,81	15	59		
antimony pentachloride	$SbCl_5$		3,22	21	69,8		
antimony tribromide	$SbBr_3$		20,9	100	212		
antimony trichloride	$SbCl_3$		33,2	75	167		
antimony triiodide	SbI_3		13,9	175	347		
Araldite FRL + Hardener HY 905 C			3,3	20	68		
Araldite FRL + Hardener HY 905 C			3,35	40	104		
Araldite FRL + Hardener HY 905 C			3,4	60	140		
Araldite FRL + Hardener HY 905 C			3,45	80	176		
Araldite FRL + Hardener HY 905 C			3,5	100	212		
Araldite FRL + Hardener HY 905 C			4	120	248		
Araldite resin			3,5… 4,1	20	68		
argon	Ar		1,53	20	68		
Aromenzin			2,2	20	68		
arsenic tribromide	$AsBr_3$		8,83	35	95		
arsenic trichloride	$AsCl_3$		12,6	17	62,6		
arsenic trihydride	AsH_3		2,58	-50	-58		
arsenic trihydride	AsH_3		2,05	15	59		
arsenic triidodide	AsI_3		7	150	302		
Arsol			2,3	20	68		
artificial fertiliser			4,26	20	68		
asbestos			7	20	68		
asbestos			13	20	68		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
asbestos, blue			3,4	20	68		
asbestos, blue			8	20	68		
asbestos, dry			10,2	20	68		
ascorbic acid (Vitamin C)	$C_6H_8O_6$		2,05	20	68		
azoxybenzene	$C_{12}H_{10}ON_2$		5,2	36	96,8		
azoxyphenetol	$C_{16}H_{18}O_3N_2$		5,02	143	289,4		
azoxyphenetol	$C_{16}H_{18}O_3N_2$				32		

B

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
Banst			1,56	20	68		
Barnangens			1,7	20	68		
Barra-Sperr			2,3	20	68		
basalt			2,5	20	68		
batch for glass production			8,9	20	68		
Baumwollsnat-Expeller 3381			1,6	20	68		
bauxite			2,5	20	68		
beer gyle			25	20	68		
beet seed			3,5	20	68		
beet seed, dry			3,66	20	68		
beet slices, cossettes			7,33	20	68		
beet slices, rolled			1,66	20	68		
bentonite			8,1	20	68		
bentonite (Geko)		19		RT	RT		
benzal chloride	$C_7H_6Cl_2$		6,9	20	68		
benzal dimethylmalonate	$C_{14}H_{16}O_4$		7,35	21	69,8		
benzaldehyde	C_7H_6O		10,87	15	59		
benzaldehyde	C_7H_6O		17,59	18	64,4		
benzaldoxime (trans)	C_7H_7ON		3,8	20	68		
benzene, heavy	C_6H_6		3,2	20	68		
benzene, pure			1,9	20	68		
benzil	$C_{14}H_{10}Os$		5,9	70	158		
benzine			2	20	68		
benzine JP4 (aviation fuel)			1,83	22	71,6		
benzine, special			1,9	20	68		
benzole	C_6H_6		2,302	10	50		
benzole	C_6H_6		2,284	20	68		
benzole	C_6H_6		2,27	25	77		
benzole, heavy	C_6H_6		3,2	20	68		
benzole+ malonate, without emulsion			3,5	20	68		
benzoyl acetate	$C_{13}H_{14}O_4$		11,45	21	69,8		
benzoyl chloride	C_7H_5ClO		29	0	32		
benzoyl chloride	C_7H_5ClO		20	20	68		
benzyl acetate	$C_9H_{10}O_2$		5,1	21	69,8		
benzyl acetate	$C_9H_{10}O_2$		5,1	21	69,8		
benzyl alcohol	C_7H_8O		13,6	15	59		
benzyl alcohol	C_7H_8O		13	20	68		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
benzyl alcohol	C_7H_8O		9,47	70	158		
benzyl alcohol	C_7H_8O		6,6	132	269,6		
benzyl benzoate	$C_{14}H_{12}O_2$		4,9	20	68		
benzyl benzoate	$C_{14}H_{12}O_2$		4,9	20	68		
benzyl chloride	C_7H_7Cl		7	13	55,4		
benzyl ethyl ether	$C_9H_{12}O$		3,9	20	68		
benzyl iodide	C_6H_5I		4,63	20	68		
benzyl salicylate	$C_{14}H_{12}O_3$		4,1	20	68		
benzyl salicylate	$C_{14}H_{12}O_3$		4,1	20	68		
beta product			1,8	20	68		
Bewoid			3,5	20	68		
bibenzyl	$C_{14}H_{14}$		2,47	58	136,4		
biopropanol			25	20	68		
biphenyl benzene	$C_{12}H_{10}$		2,53	75	167		
bis(2-ethylhexyl) hydrogen phosphite	$C_{16}H_{35}O_3P$		5,16	32	89,6		
bis(chloromethyl)-p-xylene	$C_{10}H_{12}Cl_2$		9	20	68		
bis-(perfluoro-butyl) ether	$C_8F_{15}O$		1,82	20	68		
bis-(trifluormethyl)-benzol	$C_8H_4F_6$		5,98	30	86		
bis-(trifluormethyl)-benzol	$C_8H_4F_6$		5,37	60	140		
bitumen			2,8	20	68		
bitumen			2,3	60	140		
bleaching earth		9,7		X	X		
Blos-Alba			4,8	20	68		
bone fat			2,7	20	68		
bone fat meal			2,2	20	68		
bone meal			1,7	20	68		
Boraxide			3,2	20	68		
Boraxide			2,96	20	68		
bornyl acetate	$C_{12}H_{20}O_2$		4,6	21	69,8		
bornyl chloride	$C_{10}H_{17}Cl$		5,21	95	203		
boroethane	B_2H_6		2,074	-164	-263,2		
boroethane	B_2H_6		1,97	-128	-198,4		
boroethane	B_2H_6		1,872	-92	-133,6		
borom tribromide	BBr_3		2,58	0	32		
boron bromide	BBr_3		2,58	20	68		
bread crumbs			4,1	20	68		
brick dust			2,83	20	68		
bromal	C_2HBr_3O		7,6	20	68		
bromdodecane	$C_{12}H_{25}Br$		4,5	-4,9	23,18		
bromdodecane	$C_{12}H_{25}Br$		4,46	-1	30,2		
bromdodecane	$C_{12}H_{25}Br$		4,38	6,6	43,88		
bromdodecane	$C_{12}H_{25}Br$		4,07	25	77		
bromdodecane	$C_{12}H_{25}Br$		4,15	31,5	88,7		
bromine	Br_2		3,09	20	68		
bromine pentadecane	$C_{15}H_{31}Br$		3,88	20	68		
bromine pentafluoride	BrF_5		8,33	-11,7	10,94		
bromine pentafluoride	BrF_5		8,21	0	32		
bromine pentafluoride	BrF_5		8,02	14,5	58,1		
bromine pentafluoride	BrF_5		7,91	24,5	76,1		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
bromine propionate	$C_3H_5BrO_2$		11	21	69,8		
bromo octane	$C_8H_{17}Br$		6,37	-51	-59,8		
bromo octane	$C_8H_{17}Br$		6,29	-42	-43,6		
bromo octane	$C_8H_{17}Br$		6,15	-39	-38,2		
bromo octane	$C_8H_{17}Br$		5	25	77		
bromo-2-chloro-ethylene	C_2H_2BrCl		7,31	17	62,6		
bromo-2-chloro-ethylene	C_2H_2BrCl		2,5	17	62,6		
bromo-2-ethoxy-heptane	$C_9H_{19}BrO$		5,48	20	68		
bromo-2-ethoxy-pentane	$C_7H_{15}BrO$		6,45	25	77		
bromo-2-ethyl-benzene	C_8H_9Br		4,58	25	77		
bromo-2-methyl-butane	$C_5H_{11}Br$		9,1	19	66,2		
bromo-2-methyl-ethyl propionate	$C_6H_{11}BrO_2$		7,9	20	68		
bromo-2-methylpropane	C_4H_9Br		7,18	25	77		
bromo-2-methylpropane	C_4H_9Br		10,25	20	68		
bromo-2-methylpropane	C_4H_9Br		10,3	25	77		
bromo-3-ethoxy-heptane	$C_9H_{19}BrO$		5,22	25	77		
bromo-3-ethoxy-pentane	$C_7H_{15}BrO$		6,4	25	77		
bromo-3-methylbutane	$C_5H_{11}Br$		6,01	23,2	73,76		
bromo-3-methylbutane	$C_5H_{11}Br$		4,7	boiling point			
bromo-3-methyl-butane	$C_5H_{11}Br$		6,01	23,2	73,76		
bromo-3-methyl-butane	$C_5H_{11}Br$		4,7	boiling point			
bromo-3-methyl-butyric acid	$C_5H_9BrO_2$		6,5	20	68		
bromo-4-ethoxy-heptane	$C_9H_{19}BrO$		6,24	25	77		
bromo-4-ethoxy-pentane	$C_7H_{15}BrO$		8,24	25	77		
bromo-4-methoxybenzene	C_7H_7BrO		7,063	30	86		
bromo-4-methoxybenzene	C_7H_7BrO		6,898	40	104		
bromoacetyl bromide	$C_2H_2Br_2O$		12,4	20	68		
bromoaniline	C_6H_6BrN		13	19	66,2		
bromoaniline	$C_6H_4BrNH_2$		13	20	68		
bromobenzene	C_6H_5Br		5,46	16	60,8		
bromobenzene	C_6H_5Br		5,398	20	68		
bromobenzene	C_6H_5Br		5,39	25	77		
bromobenzene	C_6H_5Br		5,4	20	68		
bromobutene	C_4H_7Br		5,05	20	68		
bromobutene (-2)	C_4H_7Br		6,76	20	68		
bromobutene (-3)	C_4H_7Br		5,38	20	68		
bromobutyl-2-acetate	$C_6H_{11}BrO_2$		7,268	25	77		
bromobutyric acid	$C_4H_7BrO_2$		7,2	20	68		
bromocyclohexane	$C_6H_{11}Br$		11	-65	-85		
bromocyclohexane	$C_6H_{11}Br$		7,92	25	77		
bromocyclohexane	$C_6H_{11}Br$		7,92	25	77		
bromocyclohexane	$C_6H_{11}Br$		11	65	149		
bromodecane	$C_{10}H_{21}Br$		5,21	-27,6	-17,68		
bromodecane	$C_{10}H_{21}Br$		5,1	-20,5	-4,9		
bromodecane	$C_{10}H_{21}Br$		4,44	25	77		
bromodocosane	$C_{22}H_{45}Br$		3,2	42,7	108,86		
bromodocosane	$C_{22}H_{45}Br$		3,12	55,2	131,36		
bromodocosane	$C_{22}H_{45}Br$		3,1	60,2	140,36		
bromoethyl butyrate	$C_6H_{11}BrO_2$		8	20	68		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
bromoethyl propionate	$C_5H_9BrO_2$		9	20	68		
bromoethylene chloride	C_2H_4BrCl		7,17	20	68		
bromoethylene chloride	C_2H_4BrCl		6,92	30	86		
bromoform	$CHBr_3$		4,404	10	50		
bromoform	$CHBr_3$		4,39	20	68		
bromoform	$CHBr_3$		4,084	40	104		
bromoheptane	$C_7H_{15}Br$		6,92	-51	-59,8		
bromoheptane	$C_7H_{15}Br$		6,84	-48	-54,4		
bromoheptane	$C_7H_{15}Br$		6,71	-42	-43,6		
bromoheptane	$C_7H_{15}Br$		5,96	-10	14		
bromoheptane	$C_7H_{15}Br$		5,58	10	50		
bromoheptane	$C_7H_{15}Br$		5,38	22	71,6		
bromoheptane	$C_7H_{15}Br$		5,33	25	77		
bromoheptane	$C_7H_{15}Br$		4,48	90	194		
bromoheptane	$C_7H_{15}Br$		6,92	-51	-59,8		
bromoheptane	$C_7H_{15}Br$		6,84	-48	-54,4		
bromoheptane	$C_7H_{15}Br$		6,71	-42	-43,6		
bromoheptane	$C_7H_{15}Br$		5,96	-10	14		
bromoheptane	$C_7H_{15}Br$		5,58	10	50		
bromoheptane	$C_7H_{15}Br$		5,38	22	71,6		
bromoheptane	$C_7H_{15}Br$		5,33	25	77		
bromoheptane	$C_7H_{15}Br$		4,48	90	194		
bromoheptane (-2)	$C_7H_{15}Br$		6,46	22	71,6		
bromoheptane (-3)	$C_7H_{15}Br$		6,93	22	71,6		
bromoheptane (-4)	$C_7H_{15}Br$		6,81	22	71,6		
bromohexadecane	$C_{16}H_{33}Br$		3,8	20	68		
bromohexadecane	$C_{16}H_{33}Br$		3,68	25	77		
bromohexadecane	$C_{16}H_{33}Br$		3,66	37,4	99,32		
bromohexadecane	$C_{16}H_{33}Br$		3,57	40	104		
bromohexadecane	$C_{16}H_{33}Br$		3,46	55	131		
bromohexane	$C_6H_{13}Br$		6,3	1	33,8		
bromohexane	$C_6H_{13}Br$		5,82	25	77		
bromo-iso-butyric acide	$C_5H_9BrO_2$		6,5	20	68		
bromo-isoethyl butyrate	$C_6H_{11}BrO_2$		7,9	20	68		
bromomethane	CH_3Br		12,6	20	68		
bromo-naphthalene	$C_{10}H_7Br$		5,17	19	66,2		
bromo-naphthalene	$C_{10}H_7Br$		5,116	20	68		
bromo-naphthalene	$C_{10}H_7Br$		4,83	25	77		
bromo-naphthalene	$C_{10}H_7Br$		4,7	40	104		
bromo-naphthalene	$C_{10}H_7Br$		4,57	55	131		
bromo-octadecyl bromide	$C_{18}H_{37}Br$		3,53	30,2	86,36		
bromo-octadecyl bromide	$C_{18}H_{37}Br$		3,52	32,4	90,32		
bromo-octadecyl bromide	$C_{18}H_{37}Br$		3,4	58,4	137,12		
bromopentane	$C_5H_{11}Br$		9,91	-90,3	-130,54		
bromopentane	$C_5H_{11}Br$		6,31	25	77		
bromopentane	C_3H_7Br		8,09	25	77		
bromopentane (-2)	C_3H_7Br		16,07	-85,6	-122,08		
bromopentane (-2)	C_3H_7Br		15,8	-81,8	-115,24		
bromopentane (-2)	C_3H_7Br		9,46	25	77		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
bromopentane (-3)	C_3H_5Br		7	20	68		
bromopentane (-3)	C_3H_5Br		7,09	30	86		
bromotetradecane	$C_{14}H_{29}Br$		3,84	25	77		
bromotoluene	C_7H_7Br		4,28	58	136,4		
bromotoluene - meta	$C_6H_4BrCH_3$		5,36	20	68		
bromotoluene (-3)	C_7H_7Br		5,36	58	136,4		
bromotoluene (-4)	C_7H_7Br		6	27,5	81,5		
bromotoluene (-4)	C_7H_7Br		5,49	58	136,4		
bromotoluene -para	$C_6H_4BrCH_3$		4,28	20	68		
bromotoluene(-2)	C_7H_7Br		4,28	58	136,4		
bromotoluene(-3)	C_7H_7Br		5,36	58	136,4		
bromotoluene(-4)	C_7H_7Br		6	27,5	81,5		
bromotoluene(-4)	C_7H_7Br		5,49	58	136,4		
bromotoluene-ortho	$C_6H_4BrCH_3$		5,49	20	68		
bromotridecane	$C_{13}H_{27}Br$		4,19	8	46,4		
bromotridecane	$C_{13}H_{27}Br$		4,18	12,7	54,86		
bromoundecane	$C_{11}H_{23}Br$		4,74	-9,3	15,26		
bromoundecane	$C_{11}H_{23}Br$		4,63	-3,3	26,06		
bromoundecane	$C_{11}H_{23}Br$		4,61	-0,6	30,92		
bentonite		5,5		RT	RT	945	0,945
butandiol-(1,3)-dinitrate	$C_4H_8O_6N_2$		18,85	20	68		
butandiol-(2,3)-dinitrate	$C_4H_8O_6N_2$		28,84	20	68		
butane	CH_4		2,9	20	68		
butanediol-(1,4)	$C_4H_{10}O_2$		32,9	15	59		
butanediol-(1,4)	$C_4H_{10}O_3$		30,16	30	86		
butanediol-2,3-diacetate	$C_8H_{14}O_4$		5,1	25	77		
butanediol-2,3-diacetate	$C_8H_{14}O_4$		6,644	25	77		
butanedioldiacetate	$C_8H_{14}O_4$		5,1	25	77		
butanedioldiacetate	$C_8H_{14}O_4$		6,644	25	77		
butanenitrile	C_4H_7N		20,3	21	69,8		
butanethiol	$C_4H_{10}S$		4,952	25	77		
butanethiol	$C_4H_{10}S$		4,586	50	122		
butanoic anhydride	$C_8H_{14}O_3$		12,9	20	68		
butanol	$C_4H_{10}O$		23,8	-25	-13		
butanol	$C_4H_{10}O$		19,5	10	50		
butanol	$C_4H_{10}O$		17,96	20	68		
butanol	$C_4H_{10}O$		17,7	25	77		
butanol	$C_4H_{10}O$		15,683	30	86		
butanol	$C_4H_{10}O$		15,36	40	104		
butanol (-2)	$C_4H_{10}O$		17,46	20	68		
butanol (-2)	$C_4H_{10}O$		16,35	25	77		
butanone(-2)	C_4H_8O		20,3	0	32		
butanone(-2)	C_4H_8O		18,5	20	68		
butanone(-2)	C_4H_8O		18,35	30	86		
butanone(-2)	C_4H_8O		17,64	40	104		
butanone-(2)-oxime	C_4H_9ON		3,4	20	68		
butanoneoxim	C_4H_9ON		3,4	20	68		
butoxyacetylene	$C_6H_{10}O$		6,62	20	68		
butyl acetanilide	$C_{12}H_{17}ON$		11,66	25	77		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
butyl acetate	$CH_3COOC_{14}H_9$		5,01	20	68		
butyl acetate	$C_6H_{12}O_2$		2,41	-77,6	-107,68		
butyl acetate	$C_6H_{12}O_3$		5,01	19	66,2		
butyl acetate	$C_6H_{12}O_4$		4,873	30	86		
butyl acetate	$C_6H_{12}O_5$		4,734	40	104		
butyl acetate	$C_6H_{12}O_2$		2,41	-77,6	-107,68		
butyl acetate	$C_6H_{12}O_2$		5,01	19	66,2		
butyl acetate	$C_6H_{12}O_2$		4,873	30	86		
butyl acetate	$C_6H_{12}O_2$		4,734	40	104		
butyl acrylate	$C_7H_{12}O_2$		4,35	0	32		
butyl acrylate	$C_7H_{12}O_2$		4,15	20	68		
butyl alcohol	$C_4H_{10}O$		19,2	20	68		
butyl alcohol	$C_4H_{10}O$		23,8	-25	-13		
butyl alcohol	$C_4H_{10}O$		19,5	10	50		
butyl alcohol	$C_4H_{10}O$		17,96	20	68		
butyl alcohol	$C_4H_{10}O$		17,7	25	77		
butyl alcohol	$C_4H_{10}O$		15,683	30	86		
butyl alcohol	$C_4H_{10}O$		15,36	40	104		
butyl alcohol	$C_4H_{10}O$		17,46	20	68		
butyl alcohol	$C_4H_{10}O$		16,35	25	77		
butyl alcohol	$C_4H_{10}O$		12,27	26	78,8		
butyl alcohol	$C_4H_{10}O$		12,02	27,8	82,04		
butyl alcohol	$C_4H_{10}O$		11,23	30	86		
butyl alcohol	$C_4H_{10}O$		9,55	42,1	107,78		
butyl alcohol	$C_4H_{10}O$		8,49	50,5	122,9		
butyl alcohol	$C_4H_{10}O$		6,96	60	140		
butyl benzene	$C_{10}H_{14}$		2,359	20	68		
butyl benzene	$C_{10}H_{14}$		2,338	30	86		
butyl benzene	$C_{10}H_{14}$		2,359	20	68		
butyl benzene	$C_{10}H_{14}$		2,338	30	86		
butyl benzene	$C_{10}H_{14}$		2,364	20	68		
butyl benzene	$C_{10}H_{14}$		2,345	30	86		
butyl benzene	$C_{10}H_{14}$		2,366	20	68		
butyl benzene	$C_{10}H_{14}$		2,346	30	86		
butyl bromide	C_4H_9Br		7,99	20	68		
butyl bromide	C_4H_9Br		6,799	30	86		
butyl bromide	C_4H_9Br		5,535	90	194		
butyl bromide	C_4H_9Br		8,64	25	77		
butyl bromide	C_4H_9Br		7,23	15	59		
butyl bromide	C_4H_9Br		7,99	20	68		
butyl bromide	C_4H_9Br		6,799	30	86		
butyl bromide	C_4H_9Br		5,535	90	194		
butyl bromide	C_4H_9Br		8,64	25	77		
butyl bromide	C_4H_9Br		10,25	20	68		
butyl bromide	C_4H_9Br		10,3	25	77		
butyl chloride	C_4H_9Cl		12,24	-90	-130		
butyl chloride	C_4H_9Cl		7,663	10	50		
butyl chloride	C_4H_9Cl		7,572	13,6	56,48		
butyl chloride	C_4H_9Cl		7,398	20	68		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
butyl chloride	C_4H_9Cl		7,147	28,55	83,39		
butyl chloride	C_4H_9Cl		6,77	42,45	108,41		
butyl chloride	C_4H_9Cl		11,72	-10	14		
butyl chloride	C_4H_9Cl		10,34	10	50		
butyl chloride	C_4H_9Cl		9,9	20	68		
butyl chloride	C_4H_9Cl		9,574	25	77		
butyl chloride	C_4H_9Cl		9,23	30	86		
butyl cyanide	C_5H_9N		22,6	-1	30,2		
butyl cyanide	C_5H_9N		20	20	68		
butyl cyanide	C_5H_9N		22,6	-1	30,2		
butyl cyanide	C_5H_9N		20	20	68		
butyl ether	$C_8H_{18}O$		3,045	25	77		
butyl ethinyl ether	$C_6H_{10}O$		6,62	25	77		
butyl formate	$C_5H_{10}O_2$		2,43	-78,7	-109,66		
butyl iodide	C_4H_9I		6,29	20	68		
butyl iodide	C_4H_9I		7,84	20	68		
butyl nitrate	$C_4H_9O_3N$		13,1	20	68		
butyl oleate	$C_{22}H_{42}O_2$		4	25	77		
butyl phthalate			4,25	20	68		
butyl silane	$C_4H_{12}Si$		2,537	20	68		
butyl stearate	$C_{22}H_{44}O_2$		3,111	30	86		
butyl stearate	$C_{22}H_{44}O_2$		3,111	30	86		
Butylamine	$C_4H_{11}N$		4,88	20	68		
Butylamine	$C_8H_{19}N$		2,998	20	68		
butyraldehyde	C_4H_8O		13,4	26	78,8		
butyraldehyde	C_4H_8O		10,8	77	170,6		
butyric acid	C_3H_7COOH		3	20	68		
butyric acid	$C_4H_8O_2$		2,932	10	50		
butyric acid	$C_4H_8O_2$		2,97	20	68		
butyric acid	$C_4H_8O_2$		3,074	70	158		
butyric aldehyde	C_4H_8O		13,4	26	78,8		
butyric aldehyde	C_4H_8O		10,8	77	170,6		

C

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
cacao beans		1,8		RT	RT	534	0,534
cacao nib		1,8		RT	RT	483	0,483
cacao shells			1,7	20	68		
calcium formate			2,2	20	68		
calcium hydroxyide, fine		2,7		RT	RT	390	0,39
camomile			34	20	68		
camphandion-(2,3)	$C_{10}H_{14}O_2$		16,3	203	397,4		
camphene	$C_{10}H_{16}$		2,33	20	68		
camphene	$C_{10}H_{17}$		2,3	40	104		
camphoric acid imide	$C_{10}H_{15}O_2N$		5,5	249	480,2		
caproic acid	$C_6H_{12}O_2$		2,63	71	159,8		
caproic acid	$C_6H_{12}O_2$		2,63	71	159,8		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
caprolactam	$C_6H_{11}NO$		3	25	77		
caprolactam	$C_6H_{11}NO$		8	95	203		
capronitrile	$C_6H_{11}N$		15,5	22	71,6		
caprylic acid	$C_8H_{16}O_2$		2,45	20	68		
caprylic acid	$C_8H_{16}O_3$		2,446	30	86		
caprylic acid	$C_8H_{16}O_4$		2,54	71	159,8		
caprylic acid	$C_8H_{16}O_2$		2,45	20	68		
caprylic acid	$C_8H_{16}O_2$		2,446	30	86		
caprylic acid	$C_8H_{16}O_2$		2,54	71	159,8		
caranone	$C_{10}H_{16}O$		18,8	20	68		
carbamide moulding powder			1,8	20	68		
Carbazole			1,3	20	68		
carbon bisulphide, pure	CS_2		2,63	20	68		
carbon bisulphide, pure	CS_2		2,625	25	77		
carbon tetrachloride	CCl_4		2,288	0	32		
carbon tetrachloride	CCl_4		2,244	15	59		
carbon tetrachloride	CCl_4		2,242	20	68		
carbon tetrachloride	CCl_4		2,23	25	77		
carbon tetrachloride	CCl_4		2,207	40	104		
carbon tetrachloride	CCl_4		2,1	boiling point			
carbonic acid	CO_2		1,6	0	32		
carbonic acid	CO_2		2,644	10	50		
carbonyl cyanide	$CO(CN)_2$		10,68	18,4	65,12		
carbonyl selenide	COSe		3,47	10	50		
carpet shreddings		1,1		RT	RT	144	0,144
carvone	$C_{10}H_{14}O$		11	22	71,6		
casting silver			2,8	20	68		
catalysor, substrate		1,8		RT	RT	404	0,404
catalysor, substrate, 63-200µm		1,6		RT	RT	942	0,942
catechol dimethyl ether	$C_8H_{10}O_2$		4,5	23	73,4		
cattle lick			2,8	20	68		
cellosolveacetate	$C_6H_{12}O_3$		7,567	30	86		
cellosolveacetate	$C_6H_{12}O_3$		7,252	40	104		
cellosolveacetate	$C_6H_{12}O_3$		6,95	50	122		
cellulose nitrate lacquer			5,2	20	68		
cellulose, flakes			19	20	68		
celulose, mash			34,5	20	68		
cement		2,16		RT	RT	1052	1,052
cement, iron Portland			3,5	20	68		
cement, Portland			3,8	20	68		
cement, Portland		2,2		RT	RT	1166	1,166
cement, white			1,43	20	68		
ceramic, bulk	Al_2O_3		17	20	68		
ceramic	Al_2O_3		7,66	20	68		
ceramic, white powder	Al_2O_3		8	20	68		
ceramic, white powder	Al_2O_3		2,7	20	68		
chaff			1,54	20	68		
chalk		2,1		RT	RT	1216	1,216
chalk		2,4		RT	RT	1012	1,012

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
chalk			3,2	20	68		
chalk rubble			7	20	68		
chalk, jura with Karu			2,17	20	68		
chalk, jura with Karu			1,96	20	68		
chamotte			1,8	20	68		
chamotte granules			2,33	20	68		
charcoal			1,3	20	68		
chloral	C_2HCl_3O		5,044	14,5	58,1		
chloral	C_2HCl_3O		6,67	20	68		
chlordodecane	$C_{12}H_{25}Cl$		4,17	25	77		
chlordodecane	$C_{12}H_{25}Cl$		4,17	25	77		
chlorinated lime			2,33	20	68		
chlorine trifluoride	ClF_3		4,75	0	32		
chlorine trifluoride	ClF_3		4,29	25	77		
chlorine, solution	CL_2		2,1	20	68		
chloro-1,3-di-(trifluoromethyl)-benzene	$C_8H_3ClF_6$		3,2	30	86		
chloro-1,3-di-(trifluoromethyl)-benzene	$C_8H_3ClF_6$		3	60	140		
chloro-1,3-di-(trifluoromethyl)-benzene	$C_8H_3ClF_6$		5,44	30	86		
chloro-1,3-di-(trifluoromethyl)-benzene	$C_8H_3ClF_6$		4,96	60	140		
chloro-1-methyl benzene	C_7H_7Cl		4,45	20	68		
chloro-1-methyl benzene	C_7H_7Cl		4,16	58	136,4		
chloro-1-methyl benzene	C_7H_7Cl		5,55	20	68		
chloro-1-methyl benzene	C_7H_7Cl		5,04	58	136,4		
chloro-1-methyl benzene	C_7H_7Cl		6,08	20	68		
chloro-1-methyl benzene	C_7H_7Cl		5,55	58	136,4		
chloro-2-bromobenzene	C_6H_4ClBr		6,8	20	68		
chloro-2-methyl butane	$C_5H_{11}Cl$		12,31	-50,4	-58,72		
chloro-2-methyl butane	$C_5H_{11}Cl$		9,3	16	60,8		
chloro-2-methyl propane	C_4H_9Cl		6,54	15	59		
chloro-2-methyl propane	C_4H_9Cl		11,72	-10	14		
chloro-2-methyl propane	C_4H_9Cl		10,34	10	50		
chloro-2-methyl propane	C_4H_9Cl		9,9	20	68		
chloro-2-methyl propane	C_4H_9Cl		9,574	25	77		
chloro-2-methyl propane	C_4H_9Cl		9,23	30	86		
chloro-2-nitro-benzene	$C_6H_4ClO_2N$		37,7	50	122		
chloro-3-bromobenzene	C_6H_4ClBr		4,58	20	68		
chloro-3-methyl butane	$C_5H_{11}Cl$		6,1	18,8	65,84		
chloro-3-methylbutane	$C_5H_{11}Cl$		6,1	18,8	65,84		
chloro-3-nitro-benzene	$C_6H_4ClO_2N$		13,95	55	131		
chloro-3-nitro-benzene	$C_6H_4ClO_2N$		13,61	60	140		
chloro-3-nitro-benzene	$C_6H_4ClO_2N$		13,29	65	149		
chloro-3-nitro-benzotrifluoride	$C_7H_3ClF_3O_2N$		12,8	30	86		
chloro-4-ethyl-benzene	C_8H_9Cl		6,04	25	77		
chloro-4-nitro-benzene	$C_6H_4ClO_2N$		8,09	120	248		
chloro-4-nitro-benzene	$C_6H_4ClO_2N$				32		
chloro-5-nitro-benzotrifluoride	$C_7H_3ClF_3O_2N$		9,8	30	86		
chloroacetic acid	CH_2Cl_COOH		33,4	20	68		
chloroacetic acid	$C_2H_3ClO_2$		12,3	60	140		
chloroacetic acid	$C_2H_3ClO_2$		11,34	73,2	163,76		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
chloroamyl acetate	$C_7H_{13}ClO_2$		7,8	20	68		
chloroamyl formate	$C_6H_{11}ClO_2$		7,8	20	68		
chloroaniline	C_6H_6ClN		13,4	19	66,2		
chloroaniline	$C_6H_4ClNH_2$		13	20	68		
chlorobenzene	C_6H_5Cl		6,08	0	32		
chlorobenzene	C_6H_5Cl		5,641	20	68		
chlorobenzene	C_6H_5Cl		5,41	30	86		
chlorobenzene	C_6H_5Cl		5,22	50	122		
chlorobenzene	C_6H_5Cl		4,9	75	167		
chlorobenzene	C_6H_5Cl		4,2	boiling point			
chlorobutane	C_4H_9Cl		12,24	-90	-130		
chlorobutane	C_4H_9Cl		7,663	10	50		
chlorobutane	C_4H_9Cl		7,572	13,6	56,48		
chlorobutane	C_4H_9Cl		7,398	20	68		
chlorobutane	C_4H_9Cl		7,147	28,55	83,39		
chlorobutane	C_4H_9Cl		6,77	42,45	108,41		
chlorobutyl formate	$C_5H_9ClO_2$		9,1	20	68		
chlorocyclohexane	$C_6H_{11}Cl$		10,9	-47	-52,6		
chlorocyclohexane	$C_6H_{11}Cl$		8,15	20	68		
chlorocyclohexane	$C_6H_{11}Cl$		7,6	25	77		
chlorocyclohexane	$C_6H_{11}Cl$		10,9	-47	-52,6		
chlorocyclohexane	$C_6H_{11}Cl$		8,15	20	68		
chlorocyclohexane	$C_6H_{11}Cl$		7,6	25	77		
chlorodifluoromethane	$CHCl\ F_2$		6,12	20	68		
chloroethyl acetate	$C_4H_7ClO_2$		11,4	21	69,8		
chloroethyl formate	$C_3H_5ClO_2$		11	20	68		
chloroethyl-2,5-dichlorobenzene	$C_8H_7Cl_3$		5,2	24	75,2		
chloroethylcrotonate	$C_6H_9ClO_2$		7,67	75	167		
chloroethylcrotonate	$C_6H_9ClO_2$		4,7	54	129,2		
chloroform	$CHCl_3$		4,806	20	68		
chloroform	$CHCl_3$		4,72	25	77		
chloroform	$CHCl_3$		4,23	boiling point			
chloroheptane	$C_7H_{15}Cl$		5,48	22	71,6		
chloroheptane	$C_7H_{15}Cl$		6,52	22	71,6		
chloroheptane	$C_7H_{15}Cl$		6,7	22	71,6		
chloroheptane	$C_7H_{15}Cl$		6,54	22	71,6		
chloroheptane	$C_7H_{15}CL$		5,48	22	71,6		
chlorohydrin	$C_3H_7ClO_2$		31	20	68		
chloromethyl acetate	$C_3H_5ClO_2$		12,9	21	69,8		
chloronaphthalene	$C_{10}H_7Cl$		5,04	25	77		
chlorooctane	$C_8H_{17}Cl$		5,05	25	77		
chloropentane	$C_5H_{11}Cl$		6,6	11	51,8		
chlorophenol	C_6H_5ClO		6,16	30	86		
chlorophenol	C_6H_5ClO		6,06	35	95		
chlorophenol	C_6H_5ClO		5,91	40	104		
chlorophenol	C_6H_5ClO		5,41	58	136,4		
chlorophenol	C_6H_5ClO		9,36	55	131		
chlorophenol	C_6H_5ClO		9,16	60	140		
chlorophenol	C_6H_5ClO		8,98	65	149		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
chlorophenol	C_6H_4ClOH		6,31	20	68		
chlorophenol	C_6H_4ClOH		9,47	20	68		
chloro-propandiol-(1,2)	$C_3H_7ClO_2$		31	20	68		
chloropropandiol-(1,2)-dinitrate	$C_3H_5ClO_6N_2$		17,5	20	68		
chloropropane	C_3H_7Cl		8,13	20	68		
chloropropanone	C_3H_5ClO		30	19	66,2		
chloropropene	C_3H_5Cl		8,2	20	68		
chloropropyl formate	$C_4H_7ClO_2$		11,2	20	68		
chloropropylene	C_3H_5Cl		8,92	26,1	78,98		
chlorotoluene	C_7H_7Cl		4,45	20	68		
chlorotoluene	C_7H_7Cl		4,16	58	136,4		
chlorotoluene	C_7H_7Cl		5,55	20	68		
chlorotoluene	C_7H_7Cl		5,04	58	136,4		
chlorotoluene	C_7H_7Cl		6,08	20	68		
chlorotoluene	C_7H_7Cl		5,55	58	136,4		
chlorotoluene	C_7H_7Cl		7	13	55,4		
Chlor-propionsäureethylester	$C_5H_9ClO_2$		10,1	20	68		
chocolate			1,4 with build-up	50	122		
chocolate			3 without build-up	50	122		
chocolate bulk, cocoa butter			1,2 with build-up	20	68		
chocolate bulk, cocoa butter			2,5 without build-up	20	68		
chocolate bulk, Sarotti			1,3 with build-up	20	68		
chocolate bulk, Sarotti			3,2 without build-up	20	68		
chocolate mass, "N. Alpenland"			1,4 with build-up	20	68		
chocolate mass, "N. Alpenland"			3,2 without build-up	20	68		
chocolate mass, "Mokka Sahne"			1,3 with build-up	20	68		
chocolate mass, "Mokka Sahne"			3,2 without build-up	20	68		
chocolate mass, "Nougat Butter"			1,3 with build-up	20	68		
chocolate mass, "Nougat Butter"			2,9 without build-up	20	68		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
chocolate mass, "Si Bitter"			1,3 with build-up	20	68		
chocolate mass, "Si Bitter"			3,2 without build-up	20	68		
chocolate mass			1,4 with build-up	20	68		
chocolate mass, "SIM"			3 without build-up	20	68		
chocolate powder			2	20	68		
choropropane	C_3H_5Cl		8,2	20	68		
cinder			12	20	68		
cinder wool			1,23	20	68		
cinnamic aldehyde	C_9H_8O		16,92	25	77		
cis-diiodo ethylene	$C_2H_2I_2$		4,46	72,5	162,5		
hexene-(3)	C_6H_{12}		2,062	25	77		
octene-(3)	C_8H_{16}		2,062	25	77		
octene-(4)	C_8H_{16}		2,053	25	77		
clay			15	20	68		
clay slurry			28	20	68		
cleaner´s naphtha			2	20	68		
clover			2,5	20	68		
coal 15 % moisture	C		4	20	68		
coal 65 % moisture	C		25,3	20	68		
coal dust	C		2,49	20	68		
coal powder	C		4,6	20	68		
coarse meal			2,5	20	68		
cocoa butter			3,3	105	221		
coconut oil (ref.)			2,9	20	68		
coconut, meal			3,3	20	68		
coffee beans		1,5		RT	RT	356	0,356
coffee beans A, brown			3,33	20	68		
coffee beans A, green			4,66	20	68		
coke			3	20	68		
coke			8	20	68		
cola syrup			17,3	20	68		
common salt 0.9	NaCl		23	20	68		
common salt 0.9	NaCl		22	110	230		
concentrate			3,2… 3,8	20	68		
Controx 203			25	20	68		
Copisil		2,4		RT	RT		
Copo		1,4		RT	RT	466	0,466
copper ore, grain size 0-10 mm normal moisture)			5,6	20	68		
copper ore, grain size 4-9 mm			6	20	68		
copra			2,3	20	68		
cork powder			1,7	20	68		
cork shavings			2,034	20	68		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
corn powder		3,2		RT	RT	669	0,669
cotton fibre powder			3,2	20	68		
Creme Mennen Mousante			16,5	20	68		
Creme Mennen Sans blaiseau			16	20	68		
Creme-Frisier Brisk			9,67	20	68		
Creme-Kirone			17,4	20	68		
Creme-Superfluo			19,5	20	68		
cresole	C_7H_8O		10,3	17	62,6		
cresole resin			18,3	20	68		
crude tar			4	20	68		
curry ketchup			24	20	68		
cyanic acid	HCN		158,1	0	32		
cyanic acid	HCN		114,9	20	68		
cyanoacetic acid	$C_3H_3O_2N$		33,4	4	39,2		
cyanoethylacetic acid	$C_5H_7O_2N$		27,7	21	69,8		
cyanogen	C_2N_2		2,52	23	73,4		
cyanomethylacetic acid	$C_4H_5O_2N$		28,8	20	68		
cyanuric chloride, pure	$C_3Cl_3N_3$		1,65	20	68		
cyanuric chloride, untreated			1,63	20	68		
cyclohexadiene-(1,3)	C_6H_8		2,68	-89	-128,2		
cyclohexandione	$C_6H_8O_2$		4,4	78	172,4		
cyclohexane	C_6H_{12}		2,023	20	68		
cyclohexanol	$C_6H_{12}O$		15	20	68		
cyclohexanol	$C_6H_{12}O$		14,8	25	77		
cyclohexanol	$C_6H_{12}O$		14,1	35	95		
cyclohexanol	$C_6H_{12}O$		12,5	45	113		
cyclohexanone	$C_6H_{10}O$		18,3	20	68		
cyclohexanone, oxime	$C_6H_{11}ON$		3,04	89	192,2		
cyclohexene	C_6H_{10}		2,6	-105	-157		
cyclohexene	C_6H_{10}		2,22	20	68		
cyclohexylamine	$C_6H_{13}N$		5,37	-21	-5,8		
cyclohexylamine	$C_6H_{13}N$		4,73	20	68		
cyclohexylcarboxylic acid	$C_7H_{12}O_2$		2,67	31	87,8		
cyclohexylphenol	$C_{12}H_{16}O$		3,97	55	131		
cyclohexylphenol	$C_{12}H_{16}O$		4,42	131	267,8		
cyclopentane	C_5H_{10}		1,965	20	68		
cyclopentanecarbonitrile	C_6H_9N		24,5	-3	26,6		
cyclopentanecarbonitrile	C_6H_9N		22,7	20	68		
cyclopentanol	$C_5H_{10}O$		25,5	-20	-4		
cyclopentanol	$C_5H_{10}O$		18	20	68		
cyclopentanone	C_5H_8O		16,3	-51	-59,8		
cyclopentanone	C_5H_8O		13,45	20	68		
cyclopentene	C_5H_8		2,095	20	68		
cyclopentylcyanide	C_6H_9N		24,5	-3	26,6		
cyclopentylcyanide	C_6H_9N		22,7	20	68		
cymene	$H_3C\text{-}CH\text{-}CH_3\text{-}CH_3$		2,25	20	68		

D

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
limonene	$C_{10}H_{16}$		2,3	20	68		
limonene	$C_{10}H_{16}$		2,381	25	77		
Daz (washing powder)			1,8	20	68		
DDT	$C_{14}H_9Cl_5$		2,9	104	219,2		
DDT	$C_{14}H_9Cl_5$		2,381	145	293		
decahydronaphthalene	$C_{10}H_{18}$		2,11	20	68		
decahydronaphthalene	$C_{10}H_{18}$		2,15	25	77		
decahydronaphthalene	$C_{10}H_{18}$		2,219	20	68		
decahydronaphthalene	$C_{10}H_{18}$		2,184	20	68		
decalin	$C_{10}H_{18}$		2,11	20	68		
decalin	$C_{10}H_{18}$		2,15	25	77		
decalin	$C_{10}H_{18}$		2,219	20	68		
decalin	$C_{10}H_{18}$		2,184	20	68		
Decamethylcyclopentasiloxan	$C_{10}H_{30}O_5Si_5$		2,5	20	68		
decamethylcyclotetrasiloxan	$(C_2H_6OSi)n$		2,5	20	68		
decamethyltetrasiloxan	$C_6H_{18}OSi_2(CH_3)_3Si(OSi(CH_3)_2)nCH_3$		2,39	20	68		
Decamethyltetrasiloxan	$C_{10}H_{30}O_3Si_4$		2,37	20	68		
decane	$C_{10}H_{22}$		1,991	20	68		
decane	$C_{10}H_{22}$		1,98	30	86		
decanol-(1)	$C_{10}H_{22}O$		8,1	20	68		
decene	$C_{10}H_{20}$		2,24	16,7	62,06		
decene-(5)	$C_{10}H_{20}$		2,071	25	77		
decene-(5)	$C_{10}H_{20}$		2,03	25	77		
Decrolin No. 53			2,4	20	68		
decyl bromide	$C_{10}H_{21}Br$		5,21	-27,6	-17,68		
decyl bromide	$C_{10}H_{21}Br$		5,1	-20,5	-4,9		
decyl bromide	$C_{10}H_{21}Br$		4,44	25	77		
de-icer			23	20	68		
Desmodur			10	20	68		
Desmophen			9,41	20	68		
Desmophen 200			2,2	20	68		
Desmophen 200 + 2000			10,4	20	68		
Desmophen 2000			2,2	20	68		
Desmorphen			4,5	20	68		
detergent, basic material		4,3		RT	RT	585	0,585
detergent, Dash			1,8	20	68		
deuterium	D_2		1,277	20	68		
deuterium oxide, heavy water	D_2		78,2	25	77		
diacetone alcohol	$C_6H_{12}O_2$		18,2	25	77		
diamylacetylene	$C_{12}H_{22}$		2,17	25	77		
diamylacetylene	$C_{12}H_{22}$		2,17	25	77		
diamylene	$C_{10}H_{18}$		2,42	17	62,6		
diamylether	$C_{10}H_{22}O$		3,08	15	59		
diamylether	$C_{10}H_{22}O$		2,822	25	77		
diamylether	$C_{10}H_{22}O$		2,636	30	86		
diamylether	$C_{10}H_{22}O$		2,567	40	104		
dibenylamine	$C_{14}H_{15}N$		3,446	20	68		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
dibenzofuran	$C_{12}H_8O$		3	100	212		
dibenzyl sebacate	$C_{24}H_{30}O_4$		6,661	25	77		
dibromo-2-methylpropane	$C_4H_8Br_2$		4,1	20	68		
dibromobenzene	$C_6H_4Br_2$		7,5	20	68		
dibromobenzene	$C_6H_4Br_2$		4,74	23	73,4		
dibromobenzene	$C_6H_4Br_2$		2,57	95	203		
dibromobutane	$C_4H_8Br_2$		5,758	25	77		
dibromobutane	$C_4H_8Br_2$		6,245	25	77		
dibromoethane	$C_2H_4Br_2$		4,86	18	64,4		
dibromoethane	$C_2H_4Br_2$		4,85	20	68		
dibromoethane	$C_2H_4Br_2$		4,76	25	77		
dibromoethane	$C_2H_4Br_2$		4,67	40	104		
dibromoethane	$C_2H_4Br_2$		4,58	55	131		
dibromoethane	$C_2H_4Br_2$		4,09	boiling point			
dibromoethene	$C_2H_2Br_2$		7,72	0	32		
dibromoethene	$C_2H_2Br_2$		7,08	25	77		
dibromoethene	$C_2H_2Br_2$		7,7	20	68		
dibromoethylene	$C_2H_2Br_2$		2,97	0	32		
dibromoethylene	$C_2H_2Br_2$		2,88	25	77		
dibromoethylene	$C_2H_2Br_2$		2,9	20	68		
dibromoheptane	$C_7H_{14}Br_2$		3,77	25	77		
dibromoheptane	$C_7H_{14}Br_2$		5,08	25	77		
dibromoheptane	$C_7H_{14}Br_2$		4,7	25	77		
dibromohexane	$C_6H_{12}Br_2$		6,732	25	77		
dibromohexane	$C_6H_{12}Br_2$		4,67	25	77		
dibromomethane	CH_2Br_2		7,77	20	68		
dibromomethane	CH_2Br_2		7,77	10	50		
dibromomethane	CH_2Br_2		7,04	20	68		
dibromomethane	CH_2Br_2		6,68	40	104		
dibromopentane	$C_5H_{10}Br_2$		4,39	25	77		
dibromopentane	$C_5H_{10}Br_2$		5,43	25	77		
dibromopentane	$C_5H_{10}Br_2$		6,5	25	77		
dibromopropane	$C_3H_6Br_2$		4,3	20	68		
dibutyl acetylene	$C_{10}H_{18}$		2,17	25	77		
dibutyl phthalate	$C_{16}H_{22}O_4$		6,436	30	86		
dibutyl phthalate	$C_{16}H_{22}O_4$		6,436	30	86		
dibutyl sebacate	$C_{18}H_{34}O_4$		4,46	25	77		
dibutyl sebacate	$C_{18}H_{34}O_4$		4,46	25	77		
dibutyl tartrate	$C_{12}H_{22}O_6$		9,4	41	105,8		
dibutyl tartrate	$C_{12}H_{22}O_6$		9,4	41	105,8		
dibutylacetylene	$C_{10}H_{18}$		2,17	25	77		
dicalcium phosphate			4,6	20	68		
dichloro-1,3-bis-(trifluormethyl) benzene	$C_8H_2Cl_2F_6$		3,12	30	86		
dichloro-1,3-bis-(trifluormethyl) benzene	$C_8H_2Cl_2F_6$		2,94	60	140		
dichloro-1-methyl benzene	$C_7H_{6l}L_2$		8,97	25	77		
dichloro-2-methyl propane	$C_4H_8Cl_2$		7,15	22,8	73,04		
dichloro-2-methyl-propane	$C_4H_8Cl_2$		7,15	22,8	73,04		
dichloro-2-vinyl benzene	$C_8H_6Cl_2$		2,58	25	77		
dichloroacetic acid	$C_2H_2Cl_2O_2$		8,22	20	68		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
dichloroacetic acid	$C_2H_2Cl_2O_2$		7,8	60	140		
dichloroacetic anhydride	$C_4H_2Cl_4O_3$		15,8	25	77		
dichloroacetone	$C_3H_4CL_2O$		14,6	20	68		
dichloroactetate, ethyl ester	$C_4H_6Cl_2O_2$		10,4	20	68		
dichlorobenzene	$C_6H_4CL_2$		11,13	0	32		
dichlorobenzene	$C_6H_4Cl_2$		9,82	20	68		
dichlorobenzene	$C_6H_4Cl_2$		9,9	50	122		
dichlorobenzene	$C_6H_4Cl_2$		7	58	136,4		
dichlorobenzene	$C_6H_4Cl_2$		5,4	0	32		
dichlorobenzene	$C_6H_4Cl_2$		4,9	20	68		
dichlorobenzene	$C_6H_4Cl_2$		4,7	50	122		
dichlorobenzene	$C_6H_4Cl_2$		4,6	60	140		
dichlorobenzene	$C_6H_4Cl_2$		2,42	55	131		
dichlorobenzene	$C_6H_4Cl_2$		2,62	58	136,4		
dichlorobenzylchloride	$C_7H_5Cl_3$		6,29	25	77		
dichlorobutane	$C_4H_8Cl_2$		8,9	25	77		
dichlorodifluoromethane	CCl_2F_2		1,78	20	68		
dichloroethane	$C_2H_4CL_2$		10,86	15,8	60,44		
dichloroethane	$C_2H_4CL_2$		10,46	25	77		
dichloroethane	$C_2H_4CL_2$		10,6	20	68		
dichloroethane	$C_2H_4CL_2$		10,37	25	77		
dichloroethene	$C_2H_2CL_2$		10,36	25	77		
dichloroethene	$C_2H_2CL_2$		4,67	16	60,8		
dichloroethene	$C_2H_2CL_2$		4,6	20	68		
dichloroethene	$C_2H_2CL_2$		10,16	0	32		
dichloroethene	$C_2H_2CL_2$		9,2	20	68		
dichloroethene	$C_2H_2CL_2$		9,22	25	77		
dichloroethene	$C_2H_2CL_2$		2,42	0	32		
dichloroethene	$C_2H_2CL_2$		2,14	20	68		
dichloroethene	$C_2H_2CL_2$		2,145	25	77		
dichloroethyl ether	$C_4H_8Cl_2O$		3,51	20	68		
dichloroethyl ether	$C_4H_8Cl_2O$		21,1	20	68		
dichloroethylene	$C_2H_2CL_2$		9,3	60	140		
dichloromethane	CH_2Cl_2		9,14	20	68		
dichloromethane	CH_2Cl_2		8,93	25	77		
dichloropropane	$C_3H_6Cl_2$		8,93	26	78,8		
dichloropropanol-(2)-nitrate	$C_3H_5Cl_2O_3N$		13,28	20	68		
dichlorostyrol	$C_8H_6Cl_2$		2,58	25	77		
dichlorotetrafluorethane	$CCl F_2$ - $CCl F_2$		1,83	20	68		
dichlorotoluol	$C_7H_6Cl_2$		6,9	20	68		
dichlorotoluol	$C_7H_6Cl_2$		8,97	25	77		
dichlorpropane	$C_3H_6Cl_2$		10,25	18,8	65,84		
dichlorpropane	$C_3H_6Cl_2$		11,37	20	68		
dicyclohexyl adipate	$C_{18}H_{30}O_4$		4,84	35	95		
dicyclohexyl adipate	$C_{18}H_{30}O_4$		4,84	35	95		
dicyclopentadiene	$C_{10}H_{12}$		2,43	40	104		
dienneyl ketone	$C_{23}H_{46}O$ (***?)		2,1	20	68		
dienneyl ketone	$C_{23}H_{46}O$		4,05	80	176		
diesel fuel			2,1	20	68		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
diethoxyethane	$C_6H_{14}O_2$		3,8	25	77		
diethyl azelate	$C_{13}H_{24}O_4$		5,133	30	86		
diethyl azelate	$C_{13}H_{24}O_4$		4,972	40	104		
diethyl azelate	$C_{13}H_{24}O_4$		5,2	151	303,8		
diethyl carbonate	$C_5H_{10}O_2$		2,82	20	68		
diethyl carbonate	$C_5H_{10}O_2$		2,82	20	68		
diethyl ether	$C_4H_{10}O$		4,34	20	68		
diethyl ether	$C_4H_{10}O$		4,265	25	77		
diethyl ether	$C_4H_{10}O$		3,7	75	167		
diethyl fumarate	$C_8H_{12}O_4$		6,56	23	73,4		
diethyl fumarate	$C_8H_{12}O_4$		6,56	23	73,4		
diethyl glutarate	$C_9H_{16}O_4$		6,659	30	86		
diethyl glutarate	$C_9H_{16}O_4$		6,392	40	104		
diethyl glutarate	$C_9H_{16}O_4$		6,659	30	86		
diethyl glutarate	$C_9H_{16}O_4$		6,392	40	104		
diethyl malate	$C_8H_{14}O_5$		10	18	64,4		
diethyl maleinate	$C_8H_{12}O_4$		8,58	23	73,4		
diethyl malonate	$C_7H_{12}O_4$		8,181	25	77		
diethyl malonate	$C_7H_{12}O_4$		8,045	30	86		
diethyl malonate	$C_8H_{12}O_4$		8,58	23	73,4		
diethyl malonate	$C_7H_{12}O_4$		8,181	25	77		
diethyl malonate	$C_7H_{12}O_4$		8,045	30	86		
diethyl mercury	$C_4H_{10}Hg$		2,1	20	68		
diethyl n-decanephosphonate	$C_{14}H_{31}O_3P$		5,68	32	89,6		
diethyl oxalacetate	$C_8H_{12}O_5$		6	19	66,2		
diethyl oxalate	$C_6H_{10}O_4$		8,08	21	69,8		
diethyl oxalate	$C_6H_{10}O_4$		8,08	21	69,8		
diethyl phthalate	$C_{12}H_{14}O_4$		7,63	20	68		
diethyl phthalate	$C_{12}H_{14}O_4$		7,63	20	68		
diethyl propyl phosphonate	$C_7H_{17}O_3P$		9,45	30	86		
diethyl sebacate	$C_{14}H_{26}O_4$		4,995	30	86		
diethyl sebacate	$C_{14}H_{26}O_4$		4,871	40	104		
diethyl sebacate	$C_{14}H_{26}O_4$		4,995	30	86		
diethyl sebacate	$C_{14}H_{26}O_4$		4,871	40	104		
diethyl sebacate	$C_{24}H_{30}O_4$		4,61	25	77		
diethyl silane	$C_4H_{12}Si$		2,544	20	68		
diethyl succinate	$C_8H_{14}O_4$		6,636	30	86		
diethyl succinate	$C_8H_{14}O_4$		6,533	40	104		
diethyl sulphide	$C_4H_{10}S$		5,96	20	68		
diethyl sulphide	$C_4H_{10}S$		5,723	25	77		
diethyl sulphide	$C_4H_{10}S$		5,236	50	122		
diethyl sulphide	$C_4H_{10}S$		5,96	20	68		
diethyl sulphide	$C_4H_{10}S$		5,723	25	77		
diethyl sulphide	$C_4H_{10}S$		5,236	50	122		
diethyl suphite, asym.	$C_4H_{10}O_3S$		41,9	20	68		
diethyl suphite, sym.	$C_4H_{10}O_3S$		15,6	20	68		
diethyl tartrate	$C_8H_{14}O_6$		4,5	20	68		
diethyl tartrate	$C_8H_{14}O_6$		4,5	20	68		
diethyl zink	$C_4H_{10}Zn$		2,55	20	68		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
diethylamine	$C_4H_{11}N$		3,782	25	77		
diethylaniline	$C_{10}H_{15}N$		5,2	20	68		
diethylbenzene	$C_{10}H_{14}$		2,594	20	68		
diethylbenzene	$C_{10}H_{14}$		2,565	30	86		
diethylbenzene	$C_{10}H_{14}$		2,369	20	68		
diethylbenzene	$C_{10}H_{14}$		2,35	30	86		
diethylbenzene	$C_{10}H_{14}$		2,259	20	68		
diethylbenzene	$C_{10}H_{14}$		2,244	30	86		
diethylesterozonid fumarate	$C_8H_{12}O_7$		8,72	23	73,4		
diethylozonide malate	$C_8H_{12}O_7$		8,36	23	73,4		
diethylpentane	C_9H_{20}		1,99	15,5	59,9		
diethylpentane	C_9H_{20}		2	30	86		
dihydrocarvon	$C_{10}H_{16}O$		8,53	19	66,2		
diiodmethane	CH_2I_2		5,32	20	68		
diiodomethane	CH_2I_2		4,999	10	50		
diiodomethane	CH_2I_2		5,5	20	68		
diiodomethane	CH_2I_2		5,316	25	77		
diisoamyl ether	$C_{10}H_{22}O$		2,817	20	68		
diisoamylamine	$C_{10}H_{23}N$		2,5	18	64,4		
diisobutylamine	$C_8H_{19}N$		2,65	22	71,6		
diisobutylene	C_8H_{16}		2,09	25	77		
diisopropyl ether	$C_6H_{14}O$		3,976	20	68		
diisopropyl ether	$C_6H_{14}O$		3,88	25	77		
dijodobenzene	$C_6H_4I_2$		5,7	20	68		
dijodobenzene	$C_6H_4I_2$		4,25	25	77		
dijodobenzene	$C_6H_4I_2$		2,88	120	248		
dimethoxyazoxybenzene	$C_{14}H_{14}O_3N_2$		5,3	122	251,6		
dimethoxyethane	$C_4H_{10}O_2$		3,49	20	68		
dimethyl aniline	$C_8H_{11}N$		4,9	20	68		
dimethyl aniline	$C_8H_{11}N$		5,05	14	57,2		
dimethyl aniline	$C_8H_{11}N$		5,02	20	68		
dimethyl aniline	$C_8H_{11}N$		4,42	70	158		
dimethyl biphenyl	$C_{14}H_{14}$		2,519	25	77		
dimethyl ether	C_2H_6O		5,02	25	77		
dimethyl ether	C_2H_6O		2,97	110	230		
dimethyl ether	C_2H_6O		2,37	125	257		
dimethyl ether	C_2H_6O		4	20	68		
dimethyl malate	$C_6H_{10}O_5$		9,31	20	68		
dimethyl malonate	$C_5H_8O_4$		10,3	20	68		
dimethyl phthalate	$C_{10}H_{10}O_4$		8,5	25	77		
dimethyl phthalate	$C_{10}H_{10}O_4$		8,5	25	77		
dimethyl succinate	$C_6H_{10}O_4$		5,1	20	68		
dimethyl succinate	$C_6H_{10}O_4$		5,1	20	68		
dimethyl sulphate	$C_2H_6O_4S$		55	20	68		
dimethyl sulphide	C_2H_6S		6,2	20	68		
dimethyl-5-ethylbenzene	$C_{10}H_{14}$		2,275	20	68		
dimethyl-5-ethylbenzene	$C_{10}H_{14}$		2,257	30	86		
dimethylacetamide	C_4H_9ON		38,93	20	68		
dimethylamine	C_2H_7N		6,32	0	32		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
dimethylamine	C_2H_7N		5,26	25	77		
dimethylaminotoluene	$C_9H_{13}N$		3,4	20	68		
dimethylaminotoluene	$C_9H_{13}N$		3,9	20	68		
dimethylbiphenyl	$C_{14}H_{14}$		2,519	25	77		
dimethylbutadiene-(1,3)	C_6H_{10}		2,099	25	77		
dimethylbutane	C_6H_{14}		1,96	19	66,2		
dimethylbutanone-(2)	$C_6H_{12}O$		13,1	14,5	58,1		
dimethylbutanone-(2)	$C_6H_{12}O$		12,2	17	62,6		
dimethylchinoxaline	$C_{10}H_{10}N_2$		2,28	25	77		
dimethyldipropylsilane	$C_5H_{20}Si$		2,054	20	68		
dimethylformamide	C_3H_7ON		37,65	20	68		
dimethylheptane	C_9H_{20}		1,89	20	68		
dimethylheptane	C_9H_{20}		1,89	20	68		
dimethylheptane	C_9H_{20}		1,987	20	68		
dimethylheptene-(2)	C_9H_{18}		2,606	20	68		
dimethylheptene-(3)	C_9H_{18}		2,343	20	68		
dimethylhexane	C_8H_{18}		1,949	20	68		
dimethylhexane	C_8H_{18}		1,961	20,8	69,44		
dimethylhexane	C_8H_{18}		1,964	20	68		
dimethylhexane	C_8H_{18}		1,981	18,94	66,092		
dimethylhexene-(2)	C_8H_{16}		2,431	20	68		
dimethylhexene-(2)	C_8H_{16}		2,65	20	68		
dimethyloctane	$C_{10}H_{22}$		1,98	20	68		
dimethyloctane	$C_{10}H_{22}$		1,98	20	68		
dimethyloctatriene-(2,4,6)	$C_{10}H_{16}$		2,557	25	77		
dimethylpentane	C_7H_{16}		1,915	20	68		
dimethylpentane	C_7H_{16}		1,942	20	68		
dimethylpentane	C_7H_{14}		1,917	20	68		
dimethylpentane	C_7H_{16}		1,94	20	68		
dimethylphenol	$C_8H_{10}O$		4,8	17	62,6		
dimethyl-p-toluidine	$C_9H_{13}N$		3,9	20	68		
dimethylpyrazine	$C_6H_8N_2$		2,436	20	68		
dimethylpyrazine	$C_6H_8N_2$		2,653	35	95		
dimethyltoluidine	$C_9H_{13}N$		3,4	20	68		
dinitrile malonate	$C_3H_2N_2$		46,3	32,6	90,68		
dinitrobenzene	$C_6H_4O_4N_2$		20,65	90	194		
dinitrogen tetraoxide	N_2O_4		2,56	15	59		
dinitrogen tetraoxide	N_2O_4		2,42	18	64,4		
dinitropropane	$C_3H_6O_4N_2$		35	20	68		
dioctyl ketone	$C_{17}H_{34}O$		5,3	60	140		
Dioctyl phthalate	$C_{24}H_{38}O_4$		5,1	25	77		
dioctyl phthalate	$C_{24}H_{38}O_4$		5,1	25	77		
dioctyl sebacate	$C_{26}H_{50}O_4$		4,01	26	78,8		
dioctyl sebacate	$C_{26}H_{50}O_4$		4,01	26	78,8		
Diofan			32	20	68		
dioinyl ether	$(C_2H_3)_2O$		3,94	20	68		
dioxan	$C_4H_8O_2$		2	20	68		
dioxan	$C_4H_8O_2$		2,24	20	68		
dioxan	$C_4H_8O_2$		2,215	25	77		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
dioxopyridin Op 46 toluol-based mother liquor			3,5	20	68		
dioxopyridin Op 48 toluol-based mother liquor			3,43	20	68		
dioxopyridin Op 49 toluol-based mother liquor			3,33	20	68		
dioxopyridin Op 50 toluol-based mother liquor			3,33	20	68		
dioxopyridin Op 51 toluol-based mother liquor			3,16	20	68		
dioxopyridin Op 69 toluol-based mother liquor			3,2	20	68		
dipentene	$C_{10}H_{16}$		2,3	20	68		
dipentene	$C_{10}H_{16}$		2,381	25	77		
diphenyl ketone	$C_{13}H_{10}O$		13,3	20	68		
diphenyl ketone	$C_{13}H_{10}O$		11,4	50	122		
diphenyl methane	$C_{13}H_{12}$		2,56	20	68		
diphenyl methane	$C_{13}H_{12}$		5,591	25	77		
diphenylamine	$C_{12}H_{11}N$		3,3	52	125,6		
diphenylene oxide	$C_{12}H_8O$		3	100	212		
diphenylethane	$C_{14}H_{14}$		2,47	58	136,4		
diphenylethanedione	$C_{14}H_{10}O_2$		13,04	95	203		
diphenylether	$C_{12}H_{10}O$		3,686	20	68		
diphenylether	$C_{12}H_{10}O$		3,684	30	86		
diphenylether	$C_{12}H_{10}O$		3,614	40	104		
dipotassium phthalate pellets			2,1	20	68		
dipotassium phthalate powder			2,5	20	68		
dipropylamin	$C_6H_{15}N$		2,9	20	68		
dipropylether	$(C_3H_7)_2O$		3,3	20	68		
dispersion			25	20	68		
distearin	$C_{39}H_{76}O_5$		3,32	78	172,4		
distearin	$C_{39}H_{76}O_5$		3,29	82	179,6		
disulphur decafluoride	S_2F_{10}		2,02	20	68		
disulphur decafluoride	S_2Cl_2		4,79	15	59		
disulphur dichloride	S_2Cl_2		5	20	68		
dithane ultra, wettable powder			1,7	20	68		
docosane	$C_{22}H_{46}$		2	50	122		
docosanol	$C_{22}H_{46}O$		2,96	70,8	159,44		
docosanol	$C_{22}H_{46}O$		2,95	75,4	167,72		
docosyl bromide	$C_{22}H_{45}Br$		3,2	42,7	108,86		
docosyl bromide	$C_{22}H_{45}Br$		3,12	55,2	131,36		
docosyl bromide	$C_{22}H_{45}Br$		3,1	60,2	140,36		
dodecadimethylsiloxane (n=6)	$(C_2H_6OSi)n$ (n=6)		2,59	20	68		
dodecamethylcyclohexasiloxane	$C_{12}H_{36}O_6Si_6$		2,59	20	68		
dodecamethylpentasiloxane	$C_{12}H_{36}O_4Si_5$		2,46	20	68		
dodecamethylpentasiloxane (n=4)	$C_6H_{18}OSi_2(CH_3)_3SiOSI(CH_3)_2\ nCH_3$ (n=4)		2,46	20	68		
dodecanamine	$C_{12}H_{27}N$		3,13	30	86		
dodecanamine	$C_{12}H_{27}N$		3,1	35	95		
dodecane	$C_{12}H_{26}$		2,01	20	68		
dodecane	$C_{12}H_{26}$		2	30	86		
dodecanol	$C_{12}H_{26}O$		5,703	25,05	77,09		
dodecanol	$C_{12}H_{26}O$		6,36	26,7	80,06		
dodecanol	$C_{12}H_{26}O$		6,07	32,1	89,78		
dodecanol	$C_{12}H_{26}O$		4,56	55	131		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
dodecanol	$C_{12}H_{26}O$		4	85	185		
dodecanol	$C_{12}H_{26}O$		5,703	25,05	77,09		
dodecanol	$C_{12}H_{26}O$		6,36	26,7	80,06		
dodecanol	$C_{12}H_{26}O$		6,07	32,1	89,78		
dodecanol	$C_{12}H_{26}O$		4,56	55	131		
dodecanol	$C_{12}H_{26}O$		4	85	185		
dodecyl bromide	$C_{12}H_{25}Br$		4,5	-4,9	23,18		
dodecyl bromide	$C_{12}H_{25}Br$		4,46	-1	30,2		
dodecyl bromide	$C_{12}H_{25}Br$		4,38	6,6	43,88		
dodecyl bromide	$C_{12}H_{25}Br$		4,07	25	77		
drilling oil, emulsion			25	20	68		
Durasil F with Karu			1,92	20	68		
durum wheat - noodles		1,92		RT	RT	366	0,366
dust			1,8	20	68		
dust and hair			1,73	20	68		
dust filter 17.4% combustible			6,42	20	68		
dust filter 23% combustible			12,25	20	68		
dust filter 7,7% combustible			3,08	20	68		
dyestuff, dried			1,24	20	68		

E

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
electrofilter dust (Sample 1)			2,23	20	68		
electrofilter dust (Sample 2)			2,93	20	68		
electrofilter dust (Sample 3)			2,93	20	68		
emulphor			4	20	68		
epichlorohydrin	C_3H_5ClO		23	20	68		
epoxy-2,6-dimethyloctene-(7)-01-(6)	$C_{10}H_{18}O_2$		5,78	25	77		
E-PVC		1,5		RT	RT	483	0,483
erythrite	$C_4H_{10}O_4$		28,2	120	248		
Eternit			3,2	20	68		
ethanediamine	$C_2H_8N_2$		15,2	9,7	49,46		
ethanediamine	$C_2H_8N_2$		13,5	26,5	79,7		
ethoxyacetylene	C_4H_6O		8,05	25	77		
ethoxyaniline	$C_8H_{11}ON$		7,43	25	77		
ethoxyethyl acetate	$C_6H_{12}O_3$		7,567	30	86		
ethoxyethyl acetate	$C_6H_{12}O_3$		7,252	40	104		
ethoxyethyl acetate	$C_6H_{12}O_3$		6,95	50	122		
ethoxynaphthaline	$C_{12}H_{12}O$		3,3	19	66,2		
ethyl acetate	$C_4H_8O_2$		2,48	-79,15	-110,47		
ethyl acetate	$C_4H_8O_2$		6,002	20	68		
ethyl acetate	$C_4H_8O_2$		6,03	25	77		
ethyl acetate	$C_4H_8O_3$		12,95	30	86		
ethyl acetate	$C_4H_8O_2$		2,48	-75,15	-103,27		
ethyl acetate	$C_4H_8O_2$		6,03	25	77		
ethyl acetoacetate	$C_6H_{10}O_3$		15	20	68		
ethyl acrylate	$C_5H_8O_2$		4,9	0	32		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
ethyl acrylate	$C_5H_8O_2$		4,7	20	68		
ethyl alcohol	C_2H_6O		16,2	20	68		
ethyl alcohol	C_2H_6O		25,9	20	68		
ethyl alcohol	C_2H_6O		25,2	25	77		
ethyl alcohol	C_2H_6O		24,8	30	86		
ethyl alcohol	C_2H_6O		23,2	75	167		
ethyl alcohol	C_2H_6O		25,09	20	68		
ethyl alcohol	C_2H_6O		25,2	25	77		
ethyl alcohol	C_2H_6O		27,8	30	86		
ethyl amylether	$C_7H_{16}O$		3,6	23	73,4		
ethyl aniline	$C_8H_{11}N$		4,84	25	77		
ethyl aniline	$C_8H_{11}N$		5,87	20	68		
ethyl anthranilate	$C_9H_{11}O_2N$		4,14	25	77		
ethyl benzene	C_8H_{10}		2,407	20	68		
ethyl benzene	C_8H_{10}		2,381	30	86		
ethyl benzoate	$C_9H_{10}O_2$		6,12	15	59		
ethyl benzoate	$C_9H_{10}O_2$		6,01	20	68		
ethyl benzoate	$C_9H_{10}O_2$		5,986	25	77		
ethyl benzoate	$C_9H_{10}O_2$		5,779	40	104		
ethyl benzoylacetate	$C_{11}H_{12}O_3$		12,4	20	68		
ethyl bromide	C_2H_5Br		10,23	1	33,8		
ethyl bromide	C_2H_5Br		9,45	18,7	65,66		
ethyl bromide	C_2H_5Br		9,37	20	68		
ethyl bromide	C_2H_5Br		9,2	25	77		
ethyl bromide	C_2H_5Br		8,81	boiling point			
ethyl butyrate	$C_6H_{12}O_2$		5,08	18	64,4		
ethyl butyrate	$C_6H_{12}O_2$		5,08	18	64,4		
ethyl carbamate	$C_3H_7O_2N$		14,24	50	122		
ethyl chloride	C_2H_5Cl		6,29	170	338		
ethyl chloride	C_2H_5Cl		6,06	179	354,2		
ethyl chloride	C_2H_5Cl		4,68	185,5	365,9		
ethyl cinnamic acid	$C_{11}H_{12}O_2$		5,83	15	59		
ethyl cinnamic acid	$C_{11}H_{12}O_2$		5,26	20	68		
ethyl cinnamic acid	$C_{11}H_{12}O_2$		9,462	35	95		
ethyl cinnamic acid	$C_{11}H_{12}O_2$		9,419	40	104		
ethyl crotonate	$C_6H_{10}O_2$		5,4	20	68		
ethyl crotonate	$C_6H_{10}O_2$		5,4	20	68		
ethyl cyanide	C_3H_5N		27,7	20	68		
ethyl cyclobutane	C_6H_{12}		1,965	20	68		
ethyl cyclopropane	C_5H_{10}		1,933	20	68		
ethyl diethyl phosphonate	$C_6H_{15}O_3P$		10,65	32	89,6		
ethyl dimethyl phosphonate	$C_4H_{11}O_3P$		15,89	30	86		
ethyl ethyl salicylate	$C_{11}H_{14}O_3$		7	20	68		
ethyl formate	$C_3H_6O_2$		2,4	-81,3	-114,34		
ethyl formate	$C_3H_6O_2$		9,1	14,5	58,1		
ethyl formate	$C_3H_6O_4$		7,16	25	77		
ethyl formate	$C_3H_6O_2$		2,4	-81,3	-114,34		
ethyl formate	$C_3H_6O_2$		9,1	14,5	58,1		
ethyl formate	$C_3H_6O_2$		7,16	25	77		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
ethyl glycol acetate	$C_6H_{12}O_3$		7,567	30	86		
ethyl glycol acetate	$C_6H_{12}O_3$		7,252	40	104		
ethyl glycol acetate	$C_6H_{12}O_3$		6,95	50	122		
ethyl heptene-(3)	C_9H_{18}		2,475	20	68		
ethyl hexane	$C_8H_{18}O$		1,961	20	68		
ethyl hydrosulphide	C_2H_6S		6,912	15	59		
ethyl iodide	C_2H_5I		7,42	18	64,4		
ethyl iodide	C_2H_5I		7,64	25	77		
ethyl isoamyl ether	$C_7H_{16}O$		3,96	20	68		
ethyl isothiocyanate	C_3H_5SN		19,6	20	68		
ethyl isothiocyanate	C_4H_5SN		17,3	17,6	63,68		
ethyl laurate	$C_{14}H_{28}O_2$		3,44	20	68		
ethyl laurate	$C_{14}H_{28}O_2$		3,44	20	68		
ethyl levulate	$C_7H_{12}O_3$		11,9	21	69,8		
ethyl levulinate	$C_7H_{12}O_3$		11,9	21	69,8		
ethyl nitrate	$C_2H_5O_3N$		19,7	20	68		
ethyl oleate	$C_{20}H_{38}O_2$		3,17	28	82,4		
ethyl palmitate	$C_{18}H_{36}O_2$		3,2	20	68		
ethyl palmitate	$C_{18}H_{36}O_2$		3,07	30	86		
ethyl palmitate	$C_{18}H_{36}O_2$		2,71	104	219,2		
ethyl palmitate	$C_{18}H_{36}O_2$		4,98	154	309,2		
ethyl palmitate	$C_{18}H_{36}O_2$		3,2	20	68		
ethyl palmitate	$C_{18}H_{36}O_3$		3,07	30	86		
ethyl palmitate	$C_{18}H_{36}O_4$		2,71	104	219,2		
ethyl palmitate	$C_{18}H_{36}O_5$		2,46	182	359,6		
ethyl pentane	C_7H_{16}		1,94	20	68		
ethyl pentane-(2)	C_7H_{14}		2,051	20	68		
ethyl pentanol-(3)	$C_7H_{16}O$		3,16	20	68		
ethyl pentyl ether	$C_7H_{16}O$		3,6	23	73,4		
ethyl propionate	$C_5H_{10}O_2$		5,64	18,5	65,3		
ethyl propionate	$C_5H_{10}O_2$		5,64	18,5	65,3		
ethyl salicylate	$C_9H_{10}O_3$		8,2	20	68		
ethyl salicylate	$C_9H_{10}O_3$		7,99	30	86		
ethyl salicylate	$C_9H_{10}O_3$		7,793	40	104		
ethyl salicylate	$C_9H_{10}O_3$		8,2	20	68		
ethyl salicylate	$C_9H_{10}O_3$		7,99	30	86		
ethyl salicylate	$C_9H_{10}O_3$		7,793	40	104		
ethyl stearate	$C_{20}H_{40}O_2$		2,958	40	104		
ethyl stearate	$C_{20}H_{40}O_2$		2,896	50	122		
ethyl stearate	$C_{20}H_{40}O_2$		2,69	100	212		
ethyl stearate	$C_{20}H_{40}O_2$		2,48	167	332,6		
ethyl stearate	$C_{20}H_{40}O_2$		2,958	40	104		
ethyl stearate	$C_{20}H_{40}O_2$		2,896	50	122		
ethyl stearate	$C_{20}H_{40}O_2$		2,69	100	212		
ethyl stearate	$C_{20}H_{40}O_2$		2,48	167	332,6		
ethyl styrol	$C_{10}H_{14}$		3,35	25	77		
ethyl thiocyanate	C_3H_5SN		29,7	20	68		
ethyl toluol	C_9H_{12}		2,36	20	68		
ethyl toluol	C_9H_{12}		2,34	30	86		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
ethyl toluol	C_9H_{12}		2,59	20	68		
ethyl toluol	C_9H_{12}		2,56	30	86		
ethyl toluol	C_9H_{12}		2,26	20	68		
ethyl toluol	C_9H_{12}		2,24	25	77		
ethyl toluol	C_9H_{12}		2,23	30	86		
ethyl undecanate	$C_{13}H_{26}O_2$		3,55	20	68		
ethyl valerate	$C_7H_{14}O_2$		4,71	18	64,4		
ethyl valerate	$C_7H_{14}O_2$		4,71	18	64,4		
ethyl-(3-methyl-butyl) ether	$C_7H_{16}O$		3,96	20	68		
ethyl-3-methyl pentane	C_8H_{18}		1,98	20	68		
ethylal	$C_5H_{12}O_2$		2,528	0	32		
ethylal	$C_5H_{12}O_2$		2,527	20	68		
ethylamine	C_2H_7N		6,94	10	50		
ethylamine	C_2H_7N		6,2	20	68		
ethylamine	C_2H_7N		6,17	25	77		
ethylbenzylamine	$C_9H_{13}N$		4,3	20	68		
ethylendiamine	$C_2H_8N_2$		15,2	9,7	49,46		
ethylendiamine	$C_2H_8N_2$		13,5	26,5	79,7		
ethylene chlorhydrin	C_2H_5ClOH		25	20	68		
ethylene chlorhydrin	C_2H_5ClO		25,8	25	77		
ethylene chlorhydrin	C_2H_5ClO		13,2	132	269,6		
ethylene chloride methanol			10	20	68		
ethylene chlorohydrine	C_2H_5ClO		25,8	25	77		
ethylene chlorohydrine	C_2H_5ClO		13,2	132	269,6		
ethylene dichloride	$C_2H_4Cl_2$		10,6	20	68		
ethylene dichloride	$C_2H_4Cl_2$		10,37	25	77		
ethylene glycol	$C_2H_6O_2$		46,66	15	59		
ethylene glycol	$C_2H_6O_2$		38,66	20	68		
ethylene glycol dimethyl ether	$C_4H_{10}O_2$		3,49	20	68		
ethylene glycol dinitrate	$C_2H_4O_6N_2$		28,26	20	68		
ethylene glycol monoacetate	$C_4H_8O_3$		12,95	30	86		
ethylene glykol monomethyl ether	$C_3H_8O_2$		15,95	30	86		
ethylene oxide	C_2H_4O		13,9	-1	30,2		
ethylethinyl ether	C_4H_6O		8,05	25	77		
ethylidene chloride	$C_2H_4Cl_2$		10,86	15,8	60,44		
ethylidene chloride	$C_2H_4Cl_2$		10,46	25	77		
ethyl-n-propylanilin	$C_{11}H_{17}N$		4,9	20	68		
eugenol	$C_{10}H_{12}O_2$		10,5	30	86		

F

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
Farina de Firanda			2,87	20	68		
Farina de Luzerna			1,87	20	68		
fatty acid			2,1	20	68		
fatty acid condensation product		1,65		RT	RT	534	0,534
fatty acid, dry			1,66	35	95		
fatty alcohol sulphonate			1,12	20	68		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
feed lime			2,56	20	68		
fenchone	$C_{10}H_{16}O$		12,8	21	69,8		
ferrocell			18,3	20	68		
fertiliser (coarse)		1,2		RT	RT	186	0,186
fertiliser (fine)		1,4		RT	RT	288	0,288
FHC powder			2,96	20	68		
fibre-glass flour, beige		1,6		RT	RT	415	0,415
fibre-glass flour, yellow		1,05		RT	RT	110	0,11
film, chips		1,6		RT	RT	65	0,065
film, chips K1		1,5		RT	RT	340	0,34
film, chips K2		1,8		RT	RT	346	0,346
filter ash			4,3	20	68		
fish solubes			16	20	68		
flax meal			1,39	20	68		
flesh bone meal 40%		1,9		RT	RT	726	0,726
flour, Type 405 wheat flour		2,45		RT	RT	582	0,582
flour. Type 405		2,4		RT	RT	604	0,604
fluorine	F_2		1,54	20	68		
fluoro-1-methylbenzene	C_7H_7F		4,22	30	86		
fluoro-1-methylbenzene	C_7H_7F		3,88	60	140		
fluoro-1-methylbenzene	C_7H_7F		5,42	30	86		
fluoro-1-methylbenzene	C_7H_7F		4,9	60	140		
fluoro-1-methylbenzene	C_7H_7F		5,86	30	86		
fluoro-1-methylbenzene	C_7H_7F		5,34	60	140		
fluoro-2-methylbenzene	$C_5H_{11}F$		5,89	20	68		
fluorobenzene	C_6H_5F		6,373	20	68		
fluorobenzene	C_6H_5F		5,42	25	77		
fluorobenzene	C_6H_5F		4,76	60	140		
fluorpentane	$C_5H_{11}F$		4,242	20	68		
fluorspar			2,5	20	68		
fluorspar		2,5		RT	RT	1726	1,726
fly ash			3,3	20	68		
foam rubber components ByA			5,5	20	68		
foam rubber components ByB			5,6	20	68		
foam rubber flakes, 8 mm grain			1,1	20	68		
foam rubber flakes, 8 mm grain, coated			1,14	20	68		
foamed plastic flakes			1,12	20	68		
formaldehyde dimethyl acetal	$C_3H_8O_2$		2,624	0	32		
formaldehyde dimethyl acetal	$C_3H_8O_2$		2,7	20	68		
formalehyde diethyl acetal	$C_5H_{12}O_2$		2,528	0	32		
formalehyde diethyl acetal	$C_5H_{12}O_2$		2,527	20	68		
formalehyde dimethyl acetal	$C_3H_8O_2$		2,624	0	32		
formalehyde dimethyl acetal	$C_3H_8O_2$		2,7	20	68		
formamide	CH_3NO		109	20	68		
formic acid	CH_2O_2		58,5	16	60,8		
formic acid	CH_2O_2		57,9	20	68		
formylphenylethyl acetate	$C_{11}H_{12}O_3$		3	20	68		
Freon 11			1,93	20	68		
Freon 113	CCL F_2-CCl_2F		1,68	20	68		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
Freon 114	$CCL\,F_2{}'CCl\,F_2$		1,83	20	68		
Freon 12			1,78	20	68		
Freon 22			6,12	20	68		
Frisier-Creme Brisk			9,67	20	68		
furfural	$C_5H_4O_2$		41,7	20	68		
furfural	$C_5H_4O_2$		41,7	20	68		
furfurane	C_4H_4O		2,95	25	77		

G

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
gelatine, kibbled		2,1		RT	RT	559	0,559
Genantin			27,3	20	68		
Genapol			19,4	20	68		
germanium (IV) chloride	$GeCl_4$		2,43	25	77		
germanium (IV) chloride	$GeCl_4$		2,65	30	86		
glass, cullet			2	20	68		
glass, granulate			4	20	68		
glass, granulate			12,16	20	68		
glucose	$C_6H_{12}O_6$		30	50	122		
glue			2	20	68		
glue powder 2…3% moisture			2,6	20	68		
glue powder 8…10% moisture			3,6	20	68		
glycerine	$C_3H_8O_3$		64,11	-50	-58		
glycerine	$C_3H_8O_3$		48,2	0	32		
glycerine	$C_3H_8O_3$		45,11	14,1	57,38		
glycerine	$C_3H_8O_3$		41,14	20	68		
glycerine	$C_3H_8O_3$		39,22	30	86		
glycerine water			37	20	68		
glycerol	$C_3H_8O_3$		18,8	20	68		
glycerol	$C_3H_8O_3$		13,2	20	68		
glycol	$C_2H_4(OH)_2$		37	20	68		
glycolonitrile	C_2H_3ON		68	20	68		
glysantin			25	20	68		
grain, maize			3,6	20	68		
grain, meal			3	20	68		
granuform		5,2		RT	RT		
granuform (interm.)		4		RT	RT		
gravel with sand			3,3	20	68		
gravel, smooth		2,6		RT	RT	1500	1,5
grit			2,8	20	68		
guaiacol	$C_7H_8O_3$		11	20	68		
guaiacol	$C_7H_8O_3$		11,5	30	86		
guano (raw phosphate)			2,5	20	68		
gum			1,8	20	68		
gum resin			2,8	20	68		

H

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
hamburger sauce			24	20	68		
Hansa yellow 106			1,25	20	68		
hard wax for cars			2	20	68		
hardener, hardening agent			27,6	20	68		
Harolix compression moulding material			3,3	20	68		
hasel nuts			2,03	20	68		
heated glue			2,26	150	302		
helium	He		1,055	20	68		
hellona, seasoning			2,3	20	68		
heptadecane	$C_{17}H_{36}$		2,052	25	77		
heptadecane	$C_{17}H_{36}$		2,047	30	86		
heptadecane	$C_{17}H_{36}$		2,042	35	95		
heptadecanone-(9)	$C_{17}H_{34}O$		5,3	60	140		
heptanal	$C_7H_{14}O$		9,07	22	71,6		
heptandiol-(3,4)-diacetate	$C_{11}H_{20}O_4$		6,684	25	77		
heptandiol-(3,4)-diacetate	$C_{11}H_{20}O_4$		5,029	25	77		
heptane	C_7H_{16}		1,942	20	68		
heptane	C_7H_{16}		1,926	25	77		
heptane	C_7H_{16}		1,91	30	86		
heptanoic acid	$C_7H_{14}O_2$		2,59	71	159,8		
heptanoic acid	$C_7H_{14}O_2$		2,59	71	159,8		
heptanol	$C_7H_{16}O$		12,1	22	71,6		
heptanol	$C_7H_{16}O$		11,1	25	77		
heptanol	$C_7H_{16}O$		9,21	22	71,6		
heptanol	$C_7H_{16}O$		6,86	22	71,6		
heptanol	$C_7H_{16}O$		6,17	22	71,6		
heptanone	$C_7H_{14}O$		12,6	20	68		
heptanone	$C_7H_{14}O$		12,43	22	71,6		
heptanone	$C_7H_{14}O$		12,6	20	68		
heptanone	$C_7H_{14}O$		12,43	22	71,6		
heptanone	$C_7H_{14}O$		9,77	22	71,6		
heptanone	$C_7H_{14}O$		12,88	22	71,6		
heptanone	$C_7H_{14}O$		12,6	20	68		
heptanone	$C_7H_{14}O$		12,43	22	71,6		
heptene	C_7H_{14}		2,055	20	68		
heptene	C_7H_{14}		2,071	20	68		
herbicide			1,4	20	68		
hexachlorobutadiene-(1,3)	C_4CL_6		2,55	20	68		
hexachlorocyclohexane	$C_6H_6Cl_6$		4,7	156	312,8		
hexadecafluoropentane	C_7F_{16}		1,847	16	60,8		
hexadecafluoropentane	C_7F_{16}		1,812	38,4	101,12		
hexadecamethylcycloheptasiloxane	$C_{16}H_{48}O_8Si_6$		2,74	20	68		
hexadecamethylcyclotetrasiloxane	$(C_2H_6OSi)_n$		2,74	20	68		
hexadecane	$C_{16}H_{34}$		2,051	20	68		
hexadecanol-(1)	$C_{16}H_{34}O$		3,82	50	122		
hexadecanol-(1)	$C_{16}H_{34}O$		3,64	64	147,2		
hexadecanol-(1)	$C_{16}H_{34}O$		3,5	70	158		
hexadecanole	$C_{16}H_{34}O$		3,82	50	122		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
hexadecanole	$C_{16}H_{34}O$		3,64	64	147,2		
hexadecanole	$C_{16}H_{34}O$		3,5	70	158		
hexadecyl bromide	$C_{16}H_{35}Br$		3,8	20	68		
hexadecyl bromide	$C_{16}H_{35}Br$		3,68	25	77		
hexadecyl bromide	$C_{16}H_{35}Br$		3,66	27,4	81,32		
hexadecyl bromide	$C_{16}H_{35}Br$		3,57	40	104		
hexadecyl bromide	$C_{16}H_{35}Br$		3,46	55	131		
hexadecyl chloride	$C_{16}H_{33}I$		3,504	20	68		
hexadecylamine-(1)	$C_{16}H_{35}N$		2,71	55	131		
hexadecyldiethyl phosphonate	$C_{20}H_{43}O_3P$		4,28	32	89,6		
hexafluoropentane	C_7F_{16}		1,874	16	60,8		
hexafluoropentane	C_7F_{16}		1,812	38,4	101,12		
hexamethylacetone	$C_9H_{18}O$		10	14,5	58,1		
hexamethyldisiloxane	$C_6H_{18}OSi_2(CH_3)_3$ Si $OSi(CH_3)_2$ nCH_3		2,17	20	68		
hexamethyldisiloxane	$C_6H_{18}OSi_2$		2,17	20	68		
hexamethyldisiloxane	$C_6H_{18}OSi_2$		2,13	40	104		
hexane	C_6H_{14}		1,89	20	68		
hexane	C_6H_{14}		1,88	25	77		
hexane	C_6H_{14}		1,87	30	86		
hexane	C_6H_{14}		1,84	75	167		
hexanol	$C_6H_{14}O$		13,3	20	68		
hexanol	$C_6H_{14}O$		12,5	25	77		
hexanol	$C_6H_{14}O$		12,9	30	86		
hexanol	$C_6H_{14}O$		8,55	75	167		
hexanol-(1)	$C_6H_{14}O$		12,5	25	77		
hexanol-(1)	$C_6H_{14}O$		12,9	30	86		
hexanol-(1)	$C_6H_{14}O$		8,55	75	167		
hexanone-(2)	$C_6H_{12}O$		14,6	14,5	58,1		
hexene	C_6H_{12}		2,05	15	59		
hexene	C_6H_{12}		2,06	20	68		
hibiscus			2,8	20	68		
honey			24	20	68		
honey milk			2,03	20	68		
honey milk			1,5	20	68		
husks			1,6	20	68		
hydrazine	N_2H_4		51,7	0	32		
hydrazine	N_2H_4		52,9	20	68		
hydrazine	N_2H_4		58,5	25	77		
hydrochloric acid	HCl		11,8	-113,2	-171,76		
hydrochloric acid	HCl		10,2	-108	-162,4		
hydrochloric acid	HCl		10,1	-85	-121		
hydrochloric acid	HCl		6,32	-15	5		
hydrochloric acid	HCl		4,6	27,7	81,86		
hydrochloric acid	CrO_2Cl_2		2,6	20	68		
hydrogen	H_2		1,228	20	68		
hydrogen bromide	HBr		7	-85	-121		
hydrogen bromide	HBr		6,2	-80	-112		
hydrogen bromide	HBr		3,8	24,7	76,46		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
hydrogen cyanide	CHN		158	20	68		
hydrogen fluoride	HF		83,6	0	32		
hydrogen iodide	HI		2,88	-50	-58		
hydrogen iodide	HI		2,9	22	71,6		
hydrogen peroxide, 45.9% aqueous	H_2O_2		84,7	18	64,4		
hydrogen peroxide, 99.2% aqueous	H_2O_2		84,9	0	32		
hydrogen peroxide, 99.45% aqueous	H_2O_2		89,2	0	32		
hydrogen peroxide, pure	H_2O_2		84,2	0	32		
hydrogen sulphide	H_2S		9,26	-85,5	-121,9		
hydrogen sulphide	H_2S		8,99	-78,6	-109,48		
hydrogen sulphide	H_2S		8,04	-61,2	-78,16		
hydrogen sulphide	H_2S		5,93	10	50		
hydrogen superoxide, 30%	H_2O_2		11	20	68		
hydroxymethylbenzylalcohol	$C_7H_{14}O$		9,7	60	140		
hydroxymethylbenzylalcohol	$C_7H_{14}O$		8,05	80	176		
hydroxymethylbenzylalcohol	$C_7H_{14}O$		7,1	95	203		

I

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
ice cream			16,5	-20	-4		
ilmenite	$FeTiO_3$		10,2	20	68		
imidazol, pure	$C_3H_4N_2$		23	90	194		
imidazol, pure	$C_3H_4N_2$		22,9	110	230		
imidazol, pure	$C_3H_4N_2$		22,7	120	248		
imidazol, pure	$C_3H_4N_2$		22,5	130	266		
imidazol, pure	$C_3H_4N_2$		22,3	140	284		
indanol	$C_9H_{10}O$		7,725	40	104		
indanol	$C_9H_{10}O$		7,1	60	140		
indanol	$C_9H_{10}O$		6,415	90	194		
indanol	$C_9H_{10}O$		7,826	60	140		
indanol	$C_9H_{10}O$		7,1	80	176		
indanol	$C_9H_{10}O$		6,735	90	194		
indanol	$C_9H_{10}O$		7,225	80	176		
insulation paste Gilbatherm Comp. A			7	20	68		
insulation paste Gilbatherm Comp. B			11	20	68		
iodine	I_2		11,1	20	68		
iodine pentafluoride	IF_5		38,7	12	53,6		
iodine pentafluoride	IF_6		36,2	25	77		
iodine pentafluoride	IF_7		33,2	40	104		
iodo-1-methylbenzene	C_7H_7I		4,4	35	95		
iodo-1-methylbenzene	C_7H_7I		4,4	35	95		
iodo-2-methylbutane	$C_5H_{11}I$		8,192	20	68		
iodo-2-methylpropane	C_4H_9I		6,47	20	68		
iodo-2-methylpropane	C_4H_9I		8,42	-33	-27,4		
iodo-2-methylpropane	C_4H_9I		10,5	20	68		
iodo-3-methylbutane	$C_5H_{11}I$		5,6	19	66,2		
iodobenzene	C_6H_5I		4,625	20	68		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
iodobenzene	C_6H_5I		5,22	30	86		
iodobenzene	C_6H_5I		4,92	58	136,4		
iodobenzene	C_6H_5I		4,87	75	167		
iodobutane	C_4H_9I		6,29	20	68		
iodobutane	C_4H_9I		7,87	20	68		
iodododecane	$C_{12}H_{25}I$		3,93	20	68		
iodododecane	$C_{12}H_{25}I$		3,93	20	68		
iodododecane	$C_{12}H_{25}I$		3,93	20	68		
iodoethyl propionate	$C_5H_9IO_2$		8,6	20	68		
iodoheptane	$C_7H_{15}I$		4,969	20	68		
iodoheptane	$C_7H_{15}I$		4,9	22	71,6		
iodoheptane	$C_7H_{15}I$		6,39	22	71,6		
iodohexadecane	$C_{16}H_{33}I$		3,504	20	68		
iodohexane	$C_6H_{13}I$		5,366	20	68		
iodooctane	$C_8H_{17}I$		4,67	20	68		
iodooctane	$C_8H_{17}I$		4,62	25	77		
iodooctane	$C_8H_{17}I$		5,77	20	68		
iodopentane	$C_5H_{11}I$		5,811	20	68		
iodopentane	$C_5H_{11}I$		7,432	20	68		
iodopentane	C_3H_7I		7	20	68		
iodopentane	C_3H_7I		8,194	20	68		
iodopentane	$C_5H_{11}I$		5,811	20	68		
iodopropene	C_3H_5I		6,1	19	66,2		
ionone	$C_{13}H_{20}O$		10,78	19,2	66,56		
ionone	$C_{13}H_{20}O$		11,65	24,5	76,1		
iron (III) oxide, red	Fe_2O_3		1,9	20	68		
iron crystals 703 035 b ? 2…6 mm			34	20	68		
iron granulate			21	20	68		
iron pentacarbonyl	C_5FeO_5		2,602	20	68		
iron silicide			10	20	68		
isoamyl acetate	$C_7H_{14}O_2$		4,789	25	77		
isoamyl acetate	$C_7H_{14}O_2$		4,539	30	86		
isoamyl acetate	$C_7H_{14}O_2$		4,414	40	104		
isoamyl acetate	$C_7H_{14}O_2$		4,789	25	77		
isoamyl acetate	$C_7H_{14}O_2$		4,539	30	86		
isoamyl acetate	$C_7H_{14}O_2$		4,414	40	104		
isoamyl alcohol	$C_5H_{12}O$		15,64	20	68		
isoamyl alcohol	$C_5H_{12}O$		13,9	22,4	72,32		
isoamyl alcohol	$C_5H_{12}O$		14,6	25	77		
isoamyl alcohol, isopentanol	$C_5H_{12}O$		15,64	20	68		
isoamyl alcohol, isopentanol	$C_5H_{12}O$		13,9	22,4	72,32		
isoamyl alcohol, isopentanol	$C_5H_{12}O$		14,6	25	77		
isoamyl butyrate	$C_9H_{18}O_2$		4	20	68		
isoamyl butyrate	$C_9H_{18}O_2$		4	20	68		
isoamyl iodide	$C_5H_{11}I$		5,6	19	66,2		
isoamyl propionate	$C_8H_{16}O_2$		4,2	20	68		
isoamyl propionate	$C_8H_{16}O_2$		4,2	20	68		
isoamyl salicylate	$C_{12}H_{16}O_3$		5,4	20	68		
isoamyl salicylate	$C_{12}H_{16}O_3$		5,4	20	68		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
isoamyl valerate	$C_{10}H_{20}O_2$		3,6	20	68		
isoamyl valerate	$C_{10}H_{20}O_2$		3,6	20	68		
isobutyl acetate	$C_6H_{12}O_2$		5,26	19,5	67,1		
isobutyl alcohol	C_4H_7OH		15,8	20	68		
isobutyl alcohol	$C_4H_{10}O$		18,08	20	68		
isobutyl alcohol	$C_4H_{10}O$		17,24	25	77		
isobutyl alcohol	$C_4H_{10}O$		15,691	30	86		
isobutyl benzene	$C_{10}H_{14}$		2,319	20	68		
isobutyl benzene	$C_{10}H_{14}$		2,298	30	86		
isobutyl benzene	C_4H_9O		7,18	25	77		
isobutyl benzoate	$C_{11}H_{14}O_2$		5,43	18	64,4		
isobutyl butyrate	$C_8H_{16}O_2$		4,1	20	68		
isobutyl butyrate	$C_8H_{16}O_2$		4,1	20	68		
isobutyl chloride	C_4H_9Cl		6,54	15	59		
isobutyl cyanide	C_5H_9N		17,95	22	71,6		
isobutyl formate	$C_5H_{10}O_2$		6,41	19	66,2		
isobutyl iodide	C_4H_9I		6,47	20	68		
isobutyl nitrate	$C_4H_9O_3N$		11,7	19	66,2		
isobutyl silane	$C_4H_{12}Si$		2,497	20	68		
isobutyl valerate	$C_9H_{18}O_2$		3,8	20	68		
isobutylamine	$C_4H_{11}N$		4,4	21	69,8		
isobutylbenzoate	$C_{11}H_{14}O_2$		5,43	18	64,4		
isobutyric acid	$C_4H_8O_2$		2,71	10	50		
isobutyric acid	$C_4H_8O_2$		2,6	20	68		
isobutyric acid	$C_4H_8O_2$		2,58	25	77		
isobutyric acid	$C_4H_8O_2$		2,73	40	104		
isobutyric anhydride	$C_8H_{14}O_3$		13,6	20	68		
isobutyronitrile	C_4H_7N		20,4	24	75,2		
isocyanate			6,1	20	68		
isodipropyl ether	$(C_3H_7)_2O$		3,88	20	68		
isolbutyl valerate	$C_9H_{18}O_2$		3,8	20	68		
isomenthone	$C_{10}H_{18}O$		11,8	-35	-31		
isomenthone	$C_{10}H_{18}O$		8,8	18	64,4		
isopentane	C_5H_{12}		1,87	0	32		
isopentane	C_5H_{12}		1,843	20	68		
isoprene	C_5H_8		2,1	20	68		
isopropanol	C_3H_8O		18,62	20	68		
isopropanol	C_3H_8O		18	25	77		
isopropanol	C_3H_8O		18,62	20	68		
isopropanol	C_3H_8O		18,3	25	77		
isopropanol-methanol			23,5	20	68		
isopropy benzaldehyde	$C_{10}H_{12}O$		10,68	15	59		
isopropyl benzene	C_9H_{12}		2,37	17	62,6		
isopropyl benzene	C_9H_{12}		2,4	20	68		
isopropyl benzene	C_9H_{12}		2,36	30	86		
isopropyl bromide	C_3H_7Br		16,7	-85,6	-122,08		
isopropyl bromide	C_3H_7Br		15,8	-81,8	-115,24		
isopropyl bromide	C_3H_7Br		9,46	25	77		
isopropyl cyanide	C_4H_7N		20,1	24	75,2		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
isopropyl iodide	C_3H_7J		8,194	20	68		
isopropyl nitrite	$C_3H_7O_2N$		12	19	66,2		
isopropylamine	C_3H_9N		5,45	20	68		
isopropylbenzaldehyde	$C_{10}H_{12}O$		10,68	15	59		
isopropylbenzene	C_9H_{12}		2,37	17	62,6		
isopropylbenzene	C_9H_{12}		2,4	20	68		
isopropyldiethyl phosphonate	$C_7H_{17}O_3P$		8,48	30	86		
isoquinoline	C_9H_7N		10,7	25	77		
isosafrol	$C_{10}H_{10}O_2$		3,33	20	68		
isovaleric acid	$C_5H_{10}O_2$		2,74	20	68		
isovaleric nitrile	C_5H_9N		17,95	22	71,6		
iton III sulphate, hydrated	$FeO_4S.7H_2O$		32,4	80	176		

J

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
javanol, seasoning			2,46	20	68		

K

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
KA pellets, brown		2,6		RT	RT		
Kadina			6,3	20	68		
kaolin with karu			2,17	20	68		
Karion			14,6	20	68		
Kasinat milk powder, dry			1,6	20	68		
kieselgur			1,4	20	68		
Kirone-Creme			17,4	20	68		
kogasin			2,379	20	68		
kogasin common solvent			4,44	20	68		

L

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
lacquer			4,06	20-80	68-176		
lacquer			3,3	20	68		
lacquer B 205			4,3	20	68		
lactic acid	$C_3H_6O_3$		22	17	62,6		
lactonitrile	C_3H_5ON		37,7	20	68		
lanolin			4,2	20	68		
lard			2,1	80	176		
latex			31	20	68		
latex (Co. Buna)			24	20	68		
latex with chalk			23	20	68		
latex, synthetic			16	25	77		
lauroxyl peroxide			1,5	20	68		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
lead tetrachloride	$PbCl_4$		2,78	20	68		
leaven (sauerteig)			not measurable	20	68		
Leinsaat-Expeller 3381			2	20	68		
Lentan V 64-144			27,8	20	68		
Lewatit M 500			15,3	20	68		
Lewatit S 100			17,6	20	68		
lime granulate			4	20	68		
lime powder			3,3	20	68		
lime, carbon-dioxide process			3,1	20	68		
lime, Münster		1,8		RT	RT	536	0,536
lime, phosphoric acid			5	20	68		
lime, slaked - dolomite		1,8		RT	RT	432	0,432
lime, slaked, 4 weeks old			2,17	20	68		
lime, slaked, refined			4	20	68		
limonene	$C_{10}H_{16}$		2,36	20	68		
limonene	$C_{10}H_{17}$		2,37	25	77		
linol waste			2	20	68		
linoleic acid	$C_{18}H_{32}O_2$		2,61	0	32		
linoleic acid	$C_{18}H_{32}O_2$		2,71	20	68		
linoleic acid	$C_{18}H_{32}O_2$		2,7	70	158		
linoleic acid	$C_{18}H_{32}O_2$		2,6	120	248		
linolenic acid	$C_{18}H_{30}O_2$		2,55	-10	14		
linolenic acid	$C_{18}H_{30}O_2$		2,76	20	68		
linolenic acid	$C_{18}H_{30}O_2$		2,97	60	140		
linolenic acid	$C_{18}H_{30}O_2$		3,01	100	212		
lipolytic fatty acids			2,9	20	68		
liquid paraffin			2	20	68		
l-limonene	$C_{10}H_{16}$		2,37	25	77		
Lonton V64-144			27,8	20	68		
Lupolen			1,33	20	68		
Lupolen 1812 E 413			1,6	20	68		
lutosol			29,28	20	68		
lye (brewing 3/65)			28	20	68		

M

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
magnesite, Probe I			2,1	20	68		
magnesite, Probe II			1,65	20	68		
magnesite, synth. 10-15% moisture			10,1	20	68		
maize grits		2,05		RT	RT	493	0,493
maize meal			3,3	20	68		
maize starch (shaken)		2,65		RT	RT	679	0,679
maize starch syrup			18,4	20	68		
maleic anhydride	$C_4H_2O_3$		50	60	140		
maleic anhydride	$C_4H_2O_3$		2,1	20	68		
malt			2,7	20	68		
malt 10% moisture			5,55	20	68		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
malt 20% moisture			5,92	20	68		
malt 4…4.5% moist+C633			2,3	20	68		
malt germ			2,38	20	68		
malt, dried			2,2	20	68		
mandelonitrile	C_8H_7ON		17,82	23	73,4		
manganese carbonate			2,33	20	68		
manganese heptoxide	Mn_2O_2		3,28	20	68		
mannitol	$C_6H_{14}O_6$		24,6	170	338		
Mansalox			5,33	20	68		
marble chips, grain size 2-3 mm		2,5		RT	RT	1585	1,585
marzistella, seasoning			2,43	20	68		
matrix			1,9	20	68		
m-chlorotoluene	$C_4H_4ClCH_3$		5,55	20	68		
m-cresole	C_7H_8O		12,95	16	60,8		
m-cresole	C_7H_8O		12,29	25	77		
m-cresole	C_7H_8O		11,237	30	86		
m-cresole	C_7H_8O		9,32	50	122		
m-cresole	C_7H_8O		9,68	58	136,4		
m-dichlorobenzene	$C_6H_4Cl_2$		5,04	20	68		
meal SM2			3,6	20	68		
meal SMO			3,6	20	68		
meal, corned			3,2	20	68		
meat meal			2,87	20	68		
meat meal			1,87	20	68		
meat meal 60%		1,7		RT	RT	611	0,611
menthol	$C_{10}H_{20}O$		3,95	42	107,6		
menthol	$C_{10}H_{20}O$		3,95	42	107,6		
mesitylene	$C_6H_3(CH_3)_3$		2,27	20	68		
metal powder			6	20	68		
methalyalanine	C_7H_9N		5,96	20	68		
methalymine	CH_5N		11,41	-10	14		
methalymine	CH_5N		11,3	0	32		
methalymine	CH_5N		9,4	25	77		
methane	CH_4		1,68	-161,5	-258,7		
methanol	CH_4O		37,92	0	32		
methanol	CH_4O		34,05	10	50		
methanol	CH_4O		33,58	20	68		
methanol	CH_4O		32,66	25	77		
methanol	CH_4O		37,92	0	32		
methanol	CH_4O		34,05	10	50		
methanol	CH_4O		33,58	20	68		
methanol	CH_4O		32,66	25	77		
methanol, impure	CH_4O		20,4	20	68		
methanol, old 3622	CH_4O		25	20	68		
methl chloride	CH_3Cl		12,6	-20	-4		
methoxy-4-methylphenol	$C_8H_{10}O_2$		11	16	60,8		
methoxy-4-methylphenol	$C_8H_{10}O_2$		11	16	60,8		
methoxybenzaldehyde	$C_8H_8O_2$		22,3	20	68		
methoxybenzaldehyde	$C_8H_8O_2$		10,4	248	478,4		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
methoxyethanol	$C_3H_8O_2$		15,95	30	86		
methoxyethylstearate	$C_{21}H_{42}O_3$		3,387	50	122		
methoxymethylbenzoate	$C_9H_{10}O_3$		7,7	20	68		
methoxytoluol	$C_8H_{10}O$		3,57	20	68		
methoxytoluol	$C_8H_{10}O$		4,08	20	68		
methoxytoluol	$C_8H_{10}O$		4,03	20	68		
methyl 4-methylbenzoate	$C_9H_{10}O_2$		4,3	33	91,4		
methyl acetate	$C_3H_6O_2$		2,58	-77,3	-107,14		
methyl acetate	$C_3H_6O_2$		8,02	19,5	67,1		
methyl acetate	$C_3H_6O_2$		6,68	25	77		
methyl acetate	$C_3H_6O_2$		6,606	30	86		
methyl acetate	$C_3H_6O_2$		6,385	40	104		
methyl acetate	$C_3H_6O_2$		2,58	-77,3	-107,14		
methyl acetate	$C_3H_6O_2$		8,02	19,5	67,1		
methyl acetate	$C_3H_6O_2$		6,68	25	77		
methyl acetate	$C_3H_6O_2$		6,606	30	86		
methyl acetate	$C_3H_6O_2$		6,385	40	104		
methyl acetophenonoxal	$C_{11}H_{10}O_4$		12,8	70	158		
methyl benzoate	$C_8H_8O_2$		6,72	10	50		
methyl benzoate	$C_8H_8O_2$		6,633	20	68		
methyl benzoate	$C_8H_8O_2$		6,459	30	86		
methyl benzoate	$C_8H_8O_2$		6,251	40	104		
methyl benzoate	$C_8H_8O_2$		6,59	20	68		
methyl bromide	CH_3Br		15,7	-78	-108,4		
methyl bromide	CH_3Br		10,6	0	32		
methyl butane	C_5H_{12}		1,87	0	32		
methyl butane	C_5H_{12}		1,843	20	68		
methyl butyrate	$C_5H_{10}O_2$		5,6	20	68		
methyl butyrate	$C_5H_{10}O_2$		5,6	20	68		
methyl cellulose		3,1		RT	RT		
methyl chlorformate	$C_2H_3ClO_2$		11	20	68		
methyl chloride	CH_3Cl		9,82	20	68		
methyl chloroform	$C_2H_3Cl_3$		7,2	20	68		
methyl cyanide	C_2H_3N		37,5	20	68		
methyl formate	$C_2H_4O_2$		2,56	-78,65	-109,57		
methyl formate	$C_2H_4O_2$		8,37	20	68		
methyl formate	$C_2H_4O_2$		2,56	-78,65	-109,57		
methyl formate	$C_2H_4O_2$		8,37	20	68		
methyl heptane	C_8H_{18}		1,951	20	68		
methyl heptanol-(1)	$C_8H_{18}O$		2,884	17	62,6		
methyl heptanol-(1)	$C_8H_{18}O$		2,85	25	77		
methyl heptanol-(1)	$C_8H_{18}O$		4,63	17	62,6		
methyl heptanol-(1)	$C_8H_{18}O$		4,37	25	77		
methyl heptanol-(1)	$C_8H_{18}O$		7,1	25	77		
methyl heptanol-(2)	$C_8H_{18}O$		3,46	25	77		
methyl heptanol-(2)	$C_8H_{18}O$		7,47	16	60,8		
methyl heptanol-(2)	$C_8H_{18}O$		7,16	25	77		
methyl heptanol-(2)	$C_8H_{18}O$		3,65	17	62,6		
methyl heptanol-(2)	$C_8H_{18}O$		3,58	25	77		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
methyl heptanol-(2)	$C_8H_{18}O$		5,16	20	68		
methyl heptanol-(2)	$C_8H_{18}O$		4,95	25	77		
methyl heptanol-(2)	$C_8H_{18}O$		3,45	19	66,2		
methyl heptanol-(3)	$C_8H_{18}O$		3,44	25	77		
methyl heptanol-(3)	$C_8H_{18}O$		3,7	15	59		
methyl heptanol-(3)	$C_8H_{18}O$		3,76	25	77		
methyl heptanol-(3)	$C_8H_{18}O$		7,46	17	62,6		
methyl heptanol-(3)	$C_8H_{18}O$		7,18	25	77		
methyl heptanol-(3)	$C_8H_{18}O$		5,31	17	62,6		
methyl heptanol-(3)	$C_8H_{18}O$		5,15	25	77		
methyl heptanol-(3)	$C_8H_{18}O$		7,68	17	62,6		
methyl heptanol-(3)	$C_8H_{18}O$		7,5	5	41		
methyl heptanol-(3)	$C_8H_{18}O$		6,2	18	64,4		
methyl heptanol-(3)	$C_8H_{18}O$		6	25	77		
methyl heptanol-(3)	$C_8H_{18}O$		10,54	17	62,6		
methyl heptanol-(3)	$C_8H_{18}O$		9,8	25	77		
methyl heptanol-(3)	$C_8H_{18}O$		6,41	17	62,6		
methyl heptanol-(3)	$C_8H_{18}O$		5,9	25	77		
methyl heptanol-(3)	$C_8H_{18}O$		5,56	17	62,6		
methyl heptanol-(3)	$C_8H_{18}O$		5,4	25	77		
methyl heptanol-(4)	$C_8H_{18}O$		3,36	25	77		
methyl heptanol-(4)	$C_8H_{18}O$		2,92	25	77		
methyl heptene-(2)	C_8H_{16}		2,436	20	68		
methyl hexane	C_7H_{16}		1,92	20	68		
methyl hexane	C_7H_{16}		1,93	20	68		
methyl iodide	CH_3I		7,1	20,4	68,72		
methyl iodide	CH_3I		6,48	boiling point			
methyl iodide	CH_3I		7	20	68		
methyl isothiocyanate	C_2H_3SN		19,7	37	98,6		
methyl isothiocyanate	C_7H_5SN		11	20	68		
methyl naphthalin	$C_{11}H_{10}$		2,73	16	60,8		
methyl naphthalin	$C_{11}H_{10}$		2,68	25	77		
methyl nitrate	$CH_3\ ON_3$		23,5	18	64,4		
methyl propionate	$C_4H_8O_2$		5,5	19	66,2		
methyl propyl-1-acetate	$C_6H_{12}O_2$		5,26	19,5	67,1		
methyl propyl-1-formate	$C_5H_{10}O_2$		6,41	19	66,2		
methyl propylketoxim	$C_5H_{11}ON$		3,3	20	68		
methyl salicylate	$C_8H_8O_3$		9,533	25	77		
methyl salicylate	$C_8H_8O_3$		9,433	30	86		
methyl salicylate	$C_8H_8O_3$		9,129	40	104		
methyl salicylate	$C_8H_8O_3$		9,533	25	77		
methyl salicylate	$C_8H_8O_3$		9,443	30	86		
methyl salicylate	$C_8H_8O_3$		9,129	40	104		
methyl thiocyanate	C_2H_3SN		35,9	20	68		
methyl valerate	$C_6H_{12}O_2$		4,3	19	66,2		
methyl valerate	$C_6H_{12}O_2$		4,3	19	66,2		
methyl-1,3-butadiene	C_5H_8		2,098	25	77		
methyl-1-butanol	$C_5H_{12}O$		15,64	20	68		
methyl-1-butanol	$C_5H_{12}O$		13,9	22,4	72,32		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
methyl-1-butanol	$C_5H_{12}O$		14,6	25	77		
methyl-1-butene	C_5H_{10}		2,197	20	68		
methyl-1-phenylhydrazine	$C_7H_{10}N_2$		7,3	19	66,2		
methyl-2-butanol	$C_5H_{12}O$		5,82	20	68		
methyl-2-butanol	$C_5H_{12}O$		6,695	30	86		
methyl-2-butanol	$C_5H_{12}O$		6,443	40	104		
methyl-2-butanol	$C_5H_{12}O$		5,69	25	77		
methyl-2-butanone	$C_5H_{10}O$		12,4	24	75,2		
methyl-2-ethylbenzene	C_9H_{12}		2,59	20	68		
methyl-2-ethylbenzene	C_9H_{12}		2,56	30	86		
methyl-2-ethylbenzene	C_9H_{12}		2,36	20	68		
methyl-2-propanol	C_4H_9OH		10,9	20	68		
methyl-3,5-diethylbenzene	$C_{11}H_{16}$		2,264	20	68		
methyl-3,5-diethylbenzene	$C_{11}H_{16}$		2,251	30	86		
methyl-3-ethylbenzene	C_9H_{12}		2,34	30	86		
methyl-3-penten-2-one	$C_6H_{10}O$		15,6	0	32		
methyl-3-penten-2-one	$C_6H_{10}O$		15,1	20	68		
methyl-3-tert.-butyl benzene	$C_{11}H_{16}$		2,33	20	68		
methyl-3-tert.-butyl benzene	$C_{11}H_{16}$		2,313	30	86		
methyl-4-ethylbenzene	C_9H_{12}		2,26	20	68		
methyl-4-ethylbenzene	C_9H_{12}		2,24	25	77		
methyl-4-ethylbenzene	C_9H_{12}		2,25	30	86		
methyl-4-isopropylbenzene	$C_{10}H_{14}$		2,253	20	68		
methyl-4-isopropylbenzene	$C_{10}H_{14}$		2,23	25	77		
methyl-4-isopropylbenzene	$C_{10}H_{14}$		2,236	30	86		
methyl-4-isopropylbenzene	$C_{10}H_{14}$		2,27	boiling point			
methyl-4-nonene	$C_{10}H_{20}$		2,175	20	68		
methyl-4-tert.-butyl benzene	$C_{11}H_{16}$		2,25	20	68		
methyl-4-tert.-butyl benzene	$C_{11}H_{16}$		2,234	30	86		
methyl-6-vinyl heptadiene-(1,5)	$C_{10}H_{16}$		2,3	25	77		
methylacetamide	C_3H_7ON		175,7	30,5	86,9		
methylal	$C_3H_8O_2$		2,624	0	32		
methylal	$C_3H_8O_2$		2,7	20	68		
methylamide ethyl carbonate	$C_4H_9O_2N$		24,3	20	68		
methylanthranilate	$C_8H_9O_2N$		3,72	25	77		
methylbenzenamine	$C_8H_{11}N$		4,4	19	66,2		
methylbenzonitrile	C_8H_7N		18,4	23	73,4		
methylbutanol	$C_5H_{11}OH$		14,7	20	68		
methylcyclohexane	C_7H_{14}		2,26	-129	-200,2		
methylcyclohexane	C_7H_{14}		2,02	20	68		
methylcyclohexane	C_7H_{14}		2,071	24,8	76,64		
methylcyclohexanol-(2)	$C_7H_{14}O$		13,3	20	68		
methylcyclohexanol-(2)	$C_7H_{14}O$		11,04	30	86		
methylcyclohexanol-(2)	$C_7H_{14}O$		9,239	40	104		
methylcyclohexanol-(2)	$C_{10}H_{16}$		2,3	25	77		
methylcyclohexanol-(3)	$C_7H_{14}O$		12,34	20	68		
methylcyclohexanol-(3)	$C_7H_{14}O$		11,63	30	86		
methylcyclohexanol-(3)	$C_7H_{14}O$		11,03	35	95		
methylcyclohexanol-(4)	$C_7H_{14}O$		13,3	20	68		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
methylcyclohexanol-(4)	$C_7H_{14}O$		11,99	30	86		
methylcyclohexanol-(4)	$C_7H_{14}O$		11,48	35	95		
methylcyclohexanone-(2)	$C_7H_{12}O$		16,4	-15	5		
methylcyclohexanone-(2)	$C_7H_{12}O$		14	20	68		
methylcyclohexanone-(3)	$C_7H_{12}O$		18,2	-89	-128,2		
methylcyclohexanone-(3)	$C_7H_{12}O$		12,4	20	68		
methylcyclohexanone-(4)	$C_7H_{12}O$		15,7	-41	-41,8		
methylcyclohexanone-(4)	$C_7H_{12}O$		12,35	20	68		
methylcyclopentane	$C_5H_9CH_3(C_6H_{12})$		1,985	20	68		
methyl-cyclopentanol-(1)	$C_6H_{12}O$		6,97	34,6	94,28		
methyl-cyclopentanol-(1)	$C_6H_{12}O$		6,88	40	104		
methyldiethyl phosphonate	$C_5H_{13}O_3P$		13,4	30	86		
methyldiisopropyl phosphonate	$C_7H_{17}O_3P$		8,06	30	86		
methyldimethyl phosphonate	$C_3H_9O_3P$		20,68	30	86		
methylene chloride	CH_2Cl_2		9,08	20	68		
methylene chloride-methanol			15,5	20	68		
methyleneglycol dimethyl ether	$C_3H_8O_2$		2,624	0	32		
methyleneglycol dimethyl ether	$C_3H_8O_2$		2,7	20	68		
methylethyl carbonate	$C_4H_8O_3$		2,985	20	68		
methylethyl carbonate	$C_4H_8O_3$		2,985	20	68		
methylethyl ketone	C_4H_8O		20,3	0	32		
methylethyl ketone	C_4H_8O		18,5	20	68		
methylethyl ketone	C_4H_8O		18,35	30	86		
methylethyl ketone	C_4H_8O		17,64	40	104		
methylethyl ketone (MEK)	C_4H_8O		2	20	68		
methylethyl ketone (MEK-S)	C_4H_8O		1,93	20	68		
methylethylcarbamate	$C_4H_9O_2N$		24,3	20	68		
methylformamide	C_2H_5ON		190,5	20	68		
methylhexene-(2)	C_7H_{14}		2,962	20	68		
methylhexylketone	$C_8H_{16}O$		10,39	20	68		
methylisobutylketone	$C_6H_{12}O$		13,11	20	68		
methyl-isoeugenol	$C_{11}H_{14}O_2$		4,65	18,5	65,3		
methyl-isoeugenolozonide	$C_{11}H_{14}O_5$		6,04	23	73,4		
methylisopropyl ketone	$C_5H_{10}O$		12,4	24	75,2		
methylmaleic anhydride	$C_5H_4O_3$		39,5	20	68		
Methyl-n-butylketon	$C_6H_{12}O$		14,6	14,5	58,1		
methyl-n-butyric acid	$C_5H_{10}O_2$		2,74	20	68		
methyl-n-propylketone	$C_5H_{10}O$		15,45	20	68		
methyloctane	C_9H_{20}		1,967	20	68		
methyloctane	C_9H_{20}		1,967	20	68		
methylpentadiene-(1,3)	C_6H_{10}		2,422	25	77		
methylpentadiene-(1,3)	C_6H_{10}		2,426	25	77		
methylpentadiene-(1,3)	C_6H_{10}		3,161	-75	-103		
methylpentadiene-(1,3)	C_6H_{10}		2,599	25	77		
methylpentadiene-(1,3)	C_6H_{10}		2,491	50	122		
methylpentandiol-2,4	$C_6H_{14}O_2$		23,4	30	86		
methylpentane	C_6H_{14}		1,907	20	68		
methylpentanol-(3)	$C_6H_{14}O$		4,098	10	50		
methylpentanol-(3)	$C_6H_{14}O$		4,322	20	68		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
methylpentanone-(2)	$C_6H_{12}O$		13,11	20	68		
methylpenten-(3)-on-(2)	$C_6H_{10}O$		15,1	20	68		
methylpentene-(3)-on-(2)	$C_6H_{10}O$		15,6	0	32		
methylphenylketone	C_8H_8O		17,39	25	77		
methylpropanamide	C_4H_9ON		179,8	20	68		
methylpropanoic acid	$C_4H_8O_2$		5,5	19	66,2		
methylpropanoic acid	$C_4H_8O_2$		2,71	10	50		
methylpropanoic acid	$C_4H_8O_2$		2,6	20	68		
methylpropanoic acid	$C_4H_8O_2$		2,58	25	77		
methylpropanoic acid	$C_4H_8O_2$		2,73	40	104		
methylpropanoic acid anhydride	$C_8H_{14}O_3$		13,6	20	68		
methylpropanol-(1)	$C_4H_{10}O$		18,08	20	68		
methylpropanol-(1)	$C_4H_{10}O$		17,24	25	77		
methylpropanol-(1)	$C_4H_{10}O$		15,691	30	86		
methylpropanol-(2)	$C_4H_{10}O$		12,27	26	78,8		
methylpropanol-(2)	$C_4H_{10}O$		12,02	27,8	82,04		
methylpropanol-(2)	$C_4H_{10}O$		11,23	30	86		
methylpropanol-(2)	$C_4H_{10}O$		9,55	42,1	107,78		
methylpropanol-(2)	$C_4H_{10}O$		8,49	50,5	122,9		
methylpropanol-(2)	$C_4H_{10}O$		6,96	60	140		
methylpyridine	C_6H_7N		9,8	20	68		
methyl-tert.-butyl ketone, pinacolin	$C_6H_{12}O$		13,1	14,5	58,1		
methyl-tert.-butyl ketone, pinacolin	$C_6H_{12}O$		12,2	17	62,6		
microstone dust			1,5	20	68		
middlings			2,22	20	68		
Milana Kinder whole meal corn			1,86	20	68		
milk of lime, 15 %			17,8	20	68		
Milumit			1,6	20	68		
Milupa oats, dry glutein			1,69	20	68		
m-nitrotoluol	$C_6H_4NO_2CH_3$		23,8	20	68		
molasses			33,3	20	68		
molasses			31,3	20	68		
monoammonium phosphate 99/100%			5,3	20	68		
monochlorobenzene	C_6H_5Cl		5,708	20	68		
monomyristin	$C_{17}H_{34}O_4$		6,1	70	158		
monopalmitin	$C_{19}H_{38}O_4$		5,34	67,1	152,78		
monopalmitin	$C_{19}H_{38}O_4$		5,09	80,1	176,18		
monostearin	$C_{21}H_{42}O_4$		4,87	77,1	170,78		
monostearin	$C_{21}H_{42}O_4$		4,71	89,1	192,38		
morpholin	C_4H_9ON		7,33	25	77		
moulding compound, Harolix			3,3	20	68		
moulding sand			2,5	20	68		
moulding sand			23,7	20	68		
m-toluidine	C_7H_9N		5,95	20	68		
m-toluidine	C_7H_9N		5,45	58	136,4		
mucilage			23,1	20	68		
mustard oil	C_3H_5NCS		17,2	20	68		
m-xylene	C_8H_{10}		2,367	20	68		
m-xylene	C_8H_{10}		2,368	25	77		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
m-xylene	C_8H_{10}		2,347	30	86		
xylene	C_8H_{10}		2,367	20	68		
xylene	C_8H_{10}		2,368	25	77		
m-xylene	C_8H_{10}		2,347	30	86		
m-xylol	C_8H_{10}		2,367	20	68		
m-xylol	C_8H_{10}		2,368	25	77		
m-xylol	C_8H_{10}		2,347	30	86		

N

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
naphthalene	$C_{10}H_8$		2,54	20	68		
naphthalene	$C_{10}H_8$		2,54	90	194		
naphthenic acid			2,6	20	68		
naphtholethyl ester	$C_{12}H_{12}O$		3,3	20	68		
naphthyl nitrile	$C_{11}H_7N$		19,2	22	71,6		
naphthyl nitrile	$C_{11}H_7N$		16	70	158		
naphthyl nitrile	$C_{11}H_7N$		16,9	70	158		
n-butyl formate	$C_5H_{10}O_2$		2,43	-78,7	-109,66		
NC95		8		RT	RT		
neat soap			28	20	68		
NiFe ore filte dust	NiFe	2,4		RT	RT	1420	1,42
nitric acid 97 % HNO_3	HNO_3		33,6	20	68		
nitric acid 98 % HNO_3	HNO_3		19	20	68		
nitroaniline	$C_6H_6O_2N_2$		34,53	90	194		
nitroaniline	$C_6H_6O_2N_2$		34,16	100	212		
nitroaniline	$C_6H_6O_2N_2$		33,96	110	230		
nitroaniline	$C_6H_6O_2N_2$		56,27	160	320		
nitroaniline	$C_6H_6O_2N_2$		55,61	170	338		
nitroaniline	$C_6H_6O_2N_2$		55,06	180	356		
nitroanisol	$C_7H_8O_3N$		23,8	19,8	67,64		
nitrobenzaldoxime	$C_7H_6O_3N_2$		59,3	117,5	243,5		
nitrobenzaldoxime	$C_7H_6O_3N_2$		48,1	120	248		
nitrobenzene	$C_6H_5O_2N$		35,32	20	68		
nitrobenzene	$C_6H_5O_2N$		34,67	25	77		
nitrobenzene trifluoride	$C_7H_4F_3O_2N$		17	30	86		
nitrobenzyl alcohol	$C_7H_7O_3N$		22	20	68		
nitroethane	$C_2H_5O_2N$		29,5	18	64,4		
nitroethane	$C_2H_5O_2N$		28	20	68		
nitroethylbenzene	$C_8H_9O_2N$		21,9	0,2	32,36		
nitrogen	N_2		1,445	-198,4	-325,12		
nitrogen	N_2		1,454	-194,7	-318,46		
nitrogen monoxide	N2O		1,63	5	41		
nitrogen monoxide	N2O		1,52	15	59		
nitrogen, liquid	N_2		1,3	-190	-310		
nitroglycerin	$C_3H_5O_9N_3$		19,25	20	68		
nitromethane	CH_3O_2N		38,57	20	68		
nitromethane	CH_3O_2N		35,87	30	86		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
nitrophenol	$C_6H_5O_3N$		17,34	50	122		
nitrophenol	$C_6H_5O_3N$		16,7	60	140		
nitrophoska			5,4	20	68		
nitropropane	$C_3H_7O_2N$		23,24	30	86		
nitropropane	$C_3H_7O_2N$		25,52	30	86		
nitrosin, seasoning			1,7	20	68		
nitrosyl bromide	NOBr		15,2	13,4	56,12		
nitrosyl chloride	NOCl		22,5	-27,5	-17,5		
nitrosyl chloride	NOCl		21,4	-19,5	-3,1		
nitrosyl chloride	NOCl		19,7	-10	14		
nitrosyl chloride	NOCl		18,2	12	53,6		
nitrotoluol	$C_7H_7O_2N$		27,4	20	68		
nitrotoluol	$C_7H_7O_2N$		26,07	25	77		
nitrotoluol	$C_7H_7O_2N$		21,61	58	136,4		
nitrotoluol	$C_7H_7O_2N$		21,86	58	136,4		
nitrotoluol	$C_7H_7O_2N$		22,2	58	136,4		
nitrous oxide, laughing gas	N_2O		1,63	5	41		
nitrous oxide, laughing gas	N_2O		1,52	15	59		
nonane	C_9H_{20}		1,972	20	68		
nonane	C_9H_{20}		1,974	25	77		
nonane	C_9H_{20}		1,959	30	86		
nonox flakes			1,75	20	68		
nonyl bromide	$C_9H_{19}Br$		5,53	-28,3	-18,94		
nonyl bromide	$C_9H_{19}Br$		5,44	-21,5	-6,7		
nonyl bromide	$C_9H_{19}Br$		5,37	-16	3,2		
nonyl bromide	$C_9H_{19}Br$		4,74	25	77		
nonyl bromide	$C_9H_{19}Br$		5,53	-28,3	-18,94		
nonyl bromide	$C_9H_{19}Br$		5,44	-21,5	-6,7		
nonyl bromide	$C_9H_{19}Br$		5,37	-16	3,2		
nonyl bromide	$C_9H_{19}Br$		4,74	25	77		
nylon chips			1,82	20	68		
nylon pellets			1,13	20	68		

O

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
oats 11…14 % moisture			4,9	20	68		
o-chlorotoluene	$C_6H_4ClCH_3$		4,45	20	68		
o-cresole	C_7H_8O		11,479	25	77		
o-cresole	C_7H_8O		10,937	30	86		
o-cresole	C_7H_8O		6,02	58	136,4		
o-cresylmethyl ether	$C_8H_{10}O$		3,57	20	68		
octadecanol-(1)	$C_{18}H_{38}O$		3,42	57,8	136,04		
octadecanol-(1)	$C_{18}H_{38}O$		3,35	68,3	154,94		
octadecanol-(1)	$C_{18}H_{38}O$		3,124	85	185		
octadecyl bromide	$C_{18}H_{37}Br$		3,53	30,2	86,36		
octadecyl bromide	$C_{18}H_{37}Br$		3,52	32,4	90,32		
octadecyl bromide	$C_{18}H_{37}Br$		3,4	58,4	137,12		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
octadecyl diethyl phosphonate	$C_{22}H_{37}O_3P$		4,05	32	89,6		
octadecylamin	$C_{18}H_{39}N$		2,67	53	127,4		
octadecylamin	$C_{18}H_{39}N$		2,64	58	136,4		
octamethyl cyclotetrasiloxane	$C_8H_{24}NO_4Si_4$		2,39	20	68		
octamethyl cyclotetrasiloxane (n=4)	$(C_2H_6OSi)n$		2,39	20	68		
octamethyl trisiloxane	$C_8H_{24}NO_2Si_3$		2,3	20	68		
octamethyl trisiloxane	$C_6H_{18}OSi_2(CH_3)_3Si$ $[OSi(CH_3)_2]nCH_3$		2,3	20	68		
octane	C_8H_{18}		1,962	20	68		
octane	C_8H_{18}		1,948	25	77		
octane	C_8H_{18}		1,935	30	86		
octanol-(1)	$C_8H_{18}O$		10,34	20	68		
octanol-(1)	$C_8H_{18}O$		9,85	25	77		
octanol-(1)	$C_8H_{18}O$		9,34	32,1	89,78		
octanol-(2)	$C_8H_{18}O$		8,68	15,7	60,26		
octanol-(2)	$C_8H_{18}O$		7,7	25	77		
octanol-(3)	$C_8H_{18}O$		7,26	15,2	59,36		
octanol-(3)	$C_8H_{18}O$		6,8	25	77		
octanol-(4)	$C_8H_{18}O$		5,26	16,6	61,88		
octanol-(4)	$C_8H_{18}O$		5	25	77		
octanon-(2)	$C_8H_{16}O$		10,39	20	68		
octene	C_8H_{16}		2,175	12,6	54,68		
octene	C_8H_{16}		2,084	20	68		
octyl amine	$C_8H_{19}N$		4,05	2	35,6		
octyl amine	$C_8H_{19}N$		3,9	12,3	54,14		
octyl bromide	$C_8H_{17}Br$		6,37	-51	-59,8		
octyl bromide	$C_8H_{17}Br$		6,29	-42	-43,6		
octyl bromide	$C_8H_{17}Br$		6,15	-39	-38,2		
octyl bromide	$C_8H_{17}Br$		5	25	77		
octyl chloride	$C_8H_{17}Cl$		5,05	25	77		
octyl iodide	$C_8H_{17}I$		4,67	20	68		
octyl iodide	$C_8H_{17}I$		4,62	25	77		
octyl phthalat			4,8	20	68		
octyldiethylphophonate	$C_{12}H_{27}O_3P$		6,29	32	89,6		
o-dichlorobenzene	$C_6H_4Cl_2$		9,93	20	68		
o-dimethyl salicylate	$C_9H_{10}O_3$		7,7	20	68		
oil			2,04 …3	20	68		
oil / DEA 124			2,38	20	68		
oil B1			5,95	20	68		
oil B3			4,15	20	68		
oil D8			6,83	50	122		
oil seed corn dust			1,9	20	68		
oil seed corn dust			1,9	20	68		
oil, heating			2,1	20	68		
oil, compound			28,2	20	68		
oil, compound, dry			2,42	20	68		
oil, compound, wet			2,44	20	68		
oil, conserve+C2733			2,4	20	68		
oil, fish			2,6	20	68		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
oil, heavy			2,2	20	68		
oil, heavy			2,2	20	68		
oil, Mobil			2,3	20	68		
oil, Mobil			2,3	20	68		
oil, motor			2,6	20	68		
oil, motor			2,6	20	68		
oil, non-conductive			3	20	68		
oil, SAE 90			2,16	10	50		
oil, SAE 90			2,18	60	140		
oil, transformer			2,1	20	68		
oil/water mixture			24,16	20	68		
oleic acid	$C_{18}H_{34}O_2$		2,46	20	68		
oleic acid	$C_{18}H_{34}O_2$		2,43	21,9	71,42		
oleic acid butyl ester	$C_{22}H_{42}O_2$		4	25	77		
oleic acid ethyl ester	$C_{20}H_{38}O_2$		3,17	28	82,4		
olein (oleic acid)			1,9	20	68		
o-methylethyl salicylate	$C_{10}H_{12}O_3$		7,7	20	68		
o-nitroaniline	$C_6H_4NO_2NH_2$		34,5	20	68		
o-nitromethylbenzoate	$C_8H_7O_4N$		27,76	26,9	80,42		
o-nitrophenol	$C_6H_4NO_2OH$		17,3	20	68		
o-nitrotoluol	$C_6H_4NO_2CH_3$		27,4	20	68		
organic bulk solid			1,7	20	68		
organic foil			33	20	68		
o-toluidine	C_7H_9N		6,34	18	64,4		
o-toluidine	C_7H_9N		5,71	58	136,4		
oxalproprionate	$C_9H_{14}O_5$		8,9	19	66,2		
oxalyl chloride	$C_2CL_2O_2$		3,47	21,2	70,16		
oxophthalane	$C_8H_6O_2$		36	75	167		
oxy-4-methyl pentanone-(2)			18,2	20	68		
oxyacetone	$C_3H_6O_2$		3,59	21	69,8		
oxygen	O_2		1,505	20	68		
oxy-heptadecene-(8)-carbonic acid-(1)-isobutyl ester	$C_{22}H_{42}O_3$		4,7	21	69,8		
o-xylene	C_8H_{10} / $C_6H_4(CH_3)_2$		2,574	20	68		
o-xylene	C_8H_{10} / $C_6H_4(CH_3)_2$		2,51	25	77		
o-xylene	C_8H_{10} / $C_6H_4(CH_3)_2$		2,544	30	86		
o-xylol	C_8H_{10}		2,571	20	68		
o-xylol	C_8H_{10}		2,51	25	77		
o-xylol	C_8H_{10}		2,544	30	86		
oxymethyl cyanide	C_2H_3ON		68	20	68		
oxymethylene camphor	$C_{11}H_{16}O_2$		12,4	97	206,6		
oxymethylenemalonate	$C_6H_{14}O_5$		6,5	22	71,6		
oxymethylenephenyethyl acetate	$C_{11}H_{12}O_3$		4,9	20	68		

P

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
PA granulate, black		1,7		RT	RT	646	0,646
paint			4,9	20	68		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
paint (black)			4,4	20	68		
Palatal P6 (polyester)			6,52	20	68		
Pallmann chips (wood, moist)			2,3	20	68		
palm nut expeller			2	20	68		
palm nut meal			3,2	20	68		
palm nut oil			2,8	20	68		
palm nuts			2,2	20	68		
palm oil			1,75	20	68		
palmitic acid	$C_{16}H_{32}O_2$		2,3	20	68		
palmitic acid	$C_{16}H_{32}O_3$		2,395	63	145,4		
palmitic acid	$C_{16}H_{32}O_4$		2,24	70	158		
palmitic acid	$C_{16}H_{32}O_5$		2,402	75	167		
paper shavings			1,2	20	68		
Para		2,3		RT	RT		
paraffin flakes			1,5	20	68		
paraldehyde	$C_6H_{12}O_3$		15,06	20	68		
pastry, croissant			2,3	20	68		
p-chlorotoluene	$C_4H_4ClCH_3$		6,08	20	68		
p-cresole	C_7H_8O		9,91	58	136,4		
p-cymene	$C_{10}H_{14}$		2,23	25	77		
p-cymene	$C_{10}H_{14}$		2,236	30	86		
p-dichlorobenzene	$C_6H_4Cl_2$		2,41	20	68		
PE chips		1,3		RT	RT	467	0,467
PE granulat, white (polyethylene)		1,3		RT	RT	625	0,625
PE powder, non-stabilised		1,4		RT	RT	434	0,434
PE, powder,		1,6		RT	RT	642	0,642
peanut expeller			2,35	20	68		
peanuts, dried			3,1	20	68		
Pelargon			2,84	20	68		
pellets			2,1	20	68		
pentaborane	B_5H_9		53,1	-46	-50,8		
pentaborane	B_5H_9		32,6	-12	10,4		
pentaborane	B_5H_9		21,1	24	75,2		
pentachloroethane	C_2HCl_5		3,97	10	50		
pentachloroethane	C_2HCl_5		3,833	20	68		
pentachlorotoluole	$C_7H_3Cl_5$		4,8	20	68		
pentadecanoic acid	$C_{15}H_3$ ($C_{15}H_{30}$)		2,045	20	68		
pentadecyl bromide	$C_{15}H_{31}Br$		3,88	20	68		
pentadiene	C_5H_8		2,32	25	77		
pentamethylchlorobenzene	$C_{11}H_{15}Cl$		5,8	20	68		
pentamethylcyclopentasiloxane	$C_5H_{20}O_5Si_5$		2,74	20	68		
pentanal	$C_5H_{10}O$		11,76	15	59		
pentandiol-(2,3)-diacetate	$C_9H_{16}O_4$		6,734	25	77		
pentandiol-(2,3)-diacetate	$C_9H_{16}O_4$		5,228	25	77		
pentandione	$C_5H_8O_2$		23	20	68		
pentane	C_5H_{12}		1,844	20	68		
pentane	C_5H_{12}		1,843	25	77		
pentane	C_5H_{12}		1,82	30	86		
pentanol	$C_5H_{12}O$		16,7	13,8	56,84		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
pentanol	$C_5H_{12}O$		14,8	20	68		
pentanol	$C_5H_{12}O$		14,4	25	77		
pentanol	$C_5H_{12}O$		14,17	20	68		
pentanol	$C_5H_{12}O$		14,02	20	68		
pentanone	$C_5H_{10}O$		17	15	59		
pentanone	$C_5H_{10}O$		15,45	20	68		
pentanone	$C_5H_{10}O$		17	15	59		
pentanone	$C_2H_5COC_2H_5$		17	20	68		
pentanone-(2)-oxim	$C_5H_{11}ON$		3,3	20	68		
pentanthiol	$C_5H_{12}S$		4,547	25	77		
pentanthiol	$C_5H_{12}S$		4,23	50	122		
pentene	C_5H_{10}		2,2	16	60,8		
pentene	C_5H_{11}		1,92	20	68		
pentene	C_5H_{12}		1,889	25	77		
pentene	C_5H_{10}		2,2	16	60,8		
pentene	C_5H_{10}		1,92	20	68		
pentene	C_5H_{10}		1,889	25	77		
pentene	C_5H_{10}		2,1	20	68		
pentyl formate	$C_6H_{12}O_2$		5,61	19	66,2		
pentyl formate	$C_6H_{12}O_2$		6,49	25	77		
pentyl mercaptan	$C_5H_{12}S$		4,547	25	77		
pentyl mercaptan	$C_5H_{12}S$		4,23	50	122		
perchlorate			3,56	20	68		
perlite			1,7	20	68		
perlite			1,83	20	68		
perlite (silicate)		1,1		RT	RT	51	0,051
perlite 833, coarse			3,1	20	68		
perlite 833, fine			4,3	20	68		
perlite EU 70		3,8		RT	RT		
perlite, powder		1,1		RT	RT	40	0,04
perlon, granulate, dry			2,16	20	68		
perlon, granulate, moist			6,1	20	68		
perlon, shavings			2,5	20	68		
perseitol	$C_7H_{16}O_7$		27,4	20	68		
PET, powder			1,53	20	68		
petrol			2,4	20	68		
Pfanni-Püree (mashed potato)			2,38	20	68		
phenanthrene	$C_{14}H_{10}$		2,72	110	230		
phenetidine (para)	$C_8H_{11}ON$		7,43	25	77		
phenetol	$C_8H_{10}O$		4,37	15	59		
phenetol	$C_8H_{10}O$		4,22	20	68		
phenetol	$C_8H_{10}O$		4,13	30	86		
phenol	C_6H_6O		3,3	120	248		
phenol	C_6H_6O		8	18	64,4		
phenol	C_6H_6O		11,4	40	104		
phenol	C_6H_6O		10,28	50	122		
phenol	C_6H_6O		9,8	60	140		
phenol	C_6H_6O		8,13	90	194		
phenol creasol resin			18,3	20	68		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
phenol resin			7,4	20	68		
phenothzin, phenothiazine			1,86	22	71,6		
phenoxyacetylene	C_8H_6O		4,76	25	77		
phenoxyacetylene	C_8H_6O		4,76	25	77		
phenyl acetaldehyde	C_8H_8O		4,78	20	68		
phenyl acetate	$C_8H_8O_2$		5,23	20	68		
phenyl acetic acid	$C_8H_8O_2$		4	85	185		
phenyl acetonitrile	C_8H_7N		18,4	20	68		
phenyl acetylene	C_8H_6		2,98	25	77		
phenyl butane	$C_{10}H_{14}$		2,364	20	68		
phenyl butane	$C_{10}H_{14}$		2,345	30	86		
phenyl cyanide	C_7H_5N (C_7H_5CN)		25,58	20	68		
phenyl cyanide	C_7H_5N (C_7H_5CN)		25,2	25	77		
phenyl ethanol-(1)	$C_8H_{10}O$		8,9	20	68		
phenyl ethanol-(1)	$C_8H_{10}O$		12,31	20	68		
phenyl ethyl acetate	$C_{10}H_{12}O_2$		5,29	20	68		
phenyl isocyanate	C_7H_5ON		8,8	20	68		
phenyl isothiocyanate	C_7H_5NS		10,4	20	68		
phenyl propene-(1)	C_9H_{10}		2,73	20	68		
phenyl propene-(2)	C_9H_{10}		2,28	20	68		
phenyl propene-(2)	C_9H_{10}		2,63	20	68		
phenyl salicylate	$C_{13}H_{10}O_3$		6,4	42	107,6		
phenyl salicylate, Salol	$C_{13}H_{10}O_3$		6,4	42	107,6		
phenyl-2-methyl propane	$C_{10}H_{14}$		2,319	20	68		
phenyl-2-methyl propane	$C_{10}H_{14}$		2,298	30	86		
phenyl-2-methyl propane	$C_{10}H_{14}$		2,366	20	68		
phenyl-2-methyl propane	$C_{10}H_{14}$		2,346	30	86		
phenylethyl acetate	$C_{10}H_{12}O_2$		4,28	15	59		
phenylethyl ketone	$C_9H_{10}O$		15,5	17	62,6		
phenylhydrazine	$C_6H_8N_2$		7,2	20	68		
phenylhydrazine	$C_6H_8N_2$		7,15	23	73,4		
phenylhydrazine	$C_6H_8N_2$		7,106	25	77		
phenyl-propandion-(1,3)-methyl carbonate-(1)	$C_{11}H_{10}O_4$		12,8	70	158		
phenylpropanon-(1)	$C_9H_{10}O$		15,5	17	62,6		
phosgene	CCl_2O		4,79	0	32		
phosgene	CCl_2O		4,34 ±0,02	22	71,6		
phosphala gel			32	20	68		
phosphate	PO4		4	20	68		
phosphine	PH_3		2,6	-50	-58		
phosphine	PH_3		2,9	15	59		
phosphorus pentachloride	PCl_5		2,85	160	320		
phosphorus pentachloride	PCl_5		2,7	165	329		
phosphorus salt			4	20	68		
phosphorus sulphochloride	$PSCl_3$		5,8	21,5	70,7		
phosphorus tribromide	PBr_3		3,9	20	68		
phosphorus trichloride	PCl_3		3,5	17	62,6		
phosphorus trichloride	PCl_3		3,43	20	68		
phosphorus trichloride	PCl_3		4,7	22	71,6		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
phosphorus triiodode	PI_3		4,12	65	149		
phosphorus, liquid	P		3,85	20	68		
phosphorus, liquid	P		4	47	116,6		
phosphoryl chloride	$POCl_3$		12,7	22	71,6		
phosphoryl chloride	$POCl_3$		13,3	20	68		
phthalic anhydride	$C_8H_4O_3$		1,55	20	68		
phthalic anhydride, crystaline			34,6	20	68		
picoline	C_6H_7N		9,94	20	68		
pinacolone	$C_6H_{12}O$		13,1	14,5	58,1		
pinacolone	$C_6H_{12}O$		12,2	17	62,6		
pinane	$C_{10}H_{18}$		2,145	25	77		
pinene	$C_{10}H_{16}$		2,64	20	68		
pinene	$C_{10}H_{16}$		2,76	20	68		
piperidine	$C_5H_{11}N$		5,8	20	68		
pitch, powdered			1,66	25	77		
pitch, thickened			1,42	25	77		
pitch, thickened			1,43	40	104		
pitch, thickened			1,45	50	122		
pitch, thinned			2,8	90	194		
pitch, thinned			2,9	100	212		
pitch, thinned			3,1	120	248		
pitch, viscous			1,5	20	68		
pitch, viscous			2,2	70	158		
pitch, viscous			2,6	80	176		
plaiting dust			4,2	20	68		
plaster		3,4		RT	RT		
plaster		1,9		RT	RT	966	0,966
plaster			1,8	20	68		
plaster, 3352 a			2,05	20	68		
plaster, 3352 b			1,95	20	68		
plaster, 3352 c			2,7	20	68		
plaster, 3352 d			1,95	20	68		
plaster, 3396 a			1,75	20	68		
plaster, 3396 b			2,1	20	68		
plaster, Peolite			2,23	20	68		
plastic chippings			1,53	20	68		
plastic dust PU		1,09		RT	RT	78	0,078
plastic granulate			1,2	20	68		
plastic granulate			1,9	180	356		
plastic granulate 18004/white/922			1,5	20	68		
plastic granulate ABS		1,72		RT	RT	634	0,634
plastic granulate Elana			1,8	20	68		
plastic granulate LDPE MFI 0.3		1,45		RT	RT	559	0,559
plastic granulate LDPE MFI 0.7		1,55		RT	RT	604	0,604
plastic granulate LDPE MFI 2.0		1,6		RT	RT	619	0,619
plastic granulate MB		2,7		RT	RT	1254	1,254
plastic granulate MDPE TVK FA 381-10		1,5		RT	RT	625	0,625
plastic granulate PA 6.6		1,8		RT	RT	671	0,671
plastic granulate PE HD		1,5		RT	RT	551	0,551

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
plastic granulate PE LD		1,5		RT	RT	559	0,559
plastic granulate PVC farbig Korn 5-7 mm		1,6		RT	RT	646	0,646
plastic granulate Ultramid		2		RT	RT	704	0,704
plastic powder			1,5	20	68		
plastic powder (Elan) 1		1,7		RT	RT	695	0,695
plastic powder (Elan) 2		1,7		RT	RT	703	0,703
plastic powder PVC		1,45		RT	RT	550	0,55
plastic product "P"			1,6	20	68		
plastisol			4,3	20	68		
Platinclair			1,7	20	68		
p-nitroaniline	$C_6H_4NO_2NH_2$		56,3	20	68		
p-nitrotoluol	$C_6H_4NO_2CH_3$		22,2	20	68		
polimero (silicate)		1,6		RT	RT	482	0,482
polyamine, granulate			2	20	68		
polyester resin			5,1	20	68		
polyester resin			1,9	20	68		
polyester resin 1% moisture			6,6	20	68		
polyethylene			1,4	20	68		
polyethylene A - S			1,15	20	68		
polyethylene chippings, natural			1,2	20	68		
polyethylene film chippings, coloured			1,2	20	68		
polyethylene, powder			1,53	20	68		
polymethylmethacrylate			3,1	20	68		
polypropylene			1,55	20	68		
polyrol			2,8	20	68		
polysterol granulate			1,7	20	68		
polyvinyl acetal			2,8	20	68		
polyviol			2,8	20	68		
polywax 3000			1,9	20	68		
popcorn			1,17	20	68		
popcorn		1,07		RT	RT	32	0,032
poppy meal			1,31	20	68		
pork meal (SM6)			3,3	20	68		
pork meal (SMO)			3,1	20	68		
Porss Charartiers 143			2,4	20	68		
Porss Elerages 103			2,73	20	68		
potash			2,6	20	68		
potash 50%			2	20	68		
potash 60%			2,03	20	68		
potassium carbonate		2,5		RT	RT		
potassium hydroxide, flakes	KOH		3,3	20	68		
potassium hyperphosphate			13,16	20	68		
potato, mashed (Pfanni puree)			2,38	20	68		
preserve			2,4	20	68		
Pril			1,16	20	68		
printing black			4,6	20	68		
propandiol dinitrate	$C_3H_6O_6N_2$		26,8	20	68		
propandiol dinitrate	$C_3H_6O_6N_2$		18,97	20	68		
propane	C_3H_8		1,61		32		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
propanetriol trinitrate	$C_3H_5O_9N_3$		19,25	20	68		
propanetriol, triacetate	$C_9H_{14}O_6$		7,19	20	68		
propanol	C_3H_8O		23,3	-7	19,4		
propanol	C_3H_8O		23,1	5	41		
propanol	C_3H_8O		20,75	20	68		
propanol	C_3H_8O		19,7	25	77		
propanol	C_3H_8O		16,6	48	118,4		
propanone (-2)	C_3H_6O		20,47	25	77		
propanone (-2)	C_3H_6O		16,98	50	122		
propanone (-2)	C_3H_6O		16,86	30	86		
propanone (-2)	C_3H_6O		16,47	40	104		
propen-1-ol	C_3H_6O		21,6	15	59		
propen-1-ol	C_3H_6O		20,6	21	69,8		
propenal	C_3H_6O (C_3H_5O***?)		14,4	15	59		
Propiofon 590 D			42	20	68		
propionaldehyde	C_3H_6O		14,4	15	59		
propionic acid	$C_3H_6O_2$		3,15	17	62,6		
propionic anhydride	$C_6H_{10}O_3$		18,3	16	60,8		
propionitrile	C_3H_5N		27,7	20	68		
propyl acetate	$C_5H_{10}O_2$		2,42	-80,9	-113,62		
propyl acetate	$C_5H_{10}O_2$		5,73	19	66,2		
propyl acetate	$C_5H_{10}O_2$		2,42	-80,9	-113,62		
propyl acetate	$C_5H_{10}O_2$		5,73	19	66,2		
propyl alcohol	CH_3-CH_2-CH_2OH		2,22	20	68		
propyl anilin	$C_9H_{13}N$		5,48	20	68		
propyl benzene	C_9H_{12}		2,372	20	68		
propyl benzene	C_9H_{12}		2,351	30	86		
propyl bromide	C_3H_7Br		8,09	25	77		
propyl butyrate	$C_7H_{14}O_2$		4,3	20	68		
propyl butyrate	$C_7H_{14}O_2$		4,3	20	68		
propyl chloride	C_3H_7Cl		8,13	20	68		
propyl cyanide	C_4H_7N		20,3	21	69,8		
propyl ether	$C_6H_{14}O$		3,394	25,7	78,26		
propyl formate	$C_4H_8O_2$		2,39	-79,5	-111,1		
propyl formate	$C_4H_8O_2$		7,72	19	66,2		
propyl formate	$C_4H_8O_2$		9,02	23,1	73,58		
propyl formate	C_3H_7CHO		7,7	20	68		
propyl formate	$C_4H_8O_2$		2,39	-79,5	-111,1		
propyl formate	$C_4H_8O_2$		7,72	19	66,2		
propyl formate	$C_4H_8O_2$		9,02	23,1	73,58		
propyl iodide	C_3H_7I		7	20	68		
propyl nitrate	$C_3H_7O_3N$		13,9	18	64,4		
propyl phosphonate	$C_6H_{12}O_2$		4,7	20	68		
propyl propionate	$C_6H_{12}O_2$		4,7	20	68		
propyl valerat	$C_8H_{16}O_2$		4	19	66,2		
propyl valerate	$C_8H_{16}O_2$		4	19	66,2		
propylamine	$C_6H_{15}N$		3,068	20	68		
propylamine	$C_6H_{15}N$		2,9	22	71,6		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
propylamine	C_3H_9N		5,31	20	68		
propylene glycol	$C_3H_8O_2$		29,46	20	68		
propylene glycol	$C_3H_8O_2$		29,46	20	68		
propylene, liquid	C_3H_6		1,85	20	68		
PSA, pure			18	130-150	266-302		
PSA, raw			21,5	130-150	266-302		
Pseidonon			10	20	68		
p-toluidine	C_7H_9N		5,07	50	122		
p-toluidine	C_7H_9N		4,88	58	136,4		
p-tolyldiethylphosphonate	$C_{11}H_{17}O_3P$		11,18	30	86		
pulegone	$C_{10}H_{16}O$		9,5	19	66,2		
pulp, cellulose		1,2		RT	RT	102	0,102
PVC			1,448	20	68		
PVC dust			1,7	20	68		
PVC plasticising agent			5	20	68		
PVC powder			2	20	68		
PVC powder			1,8	20	68		
PVC powder			1,6	20	68		
PVC powder			1,7	20	68		
PVC powder			1,3	20	68		
PVC powder			1,15	20	68		
PVC powder			1,5	20	68		
PVC powder		1,5		RT	RT	824	0,824
PVC powder		1,5		RT	RT	102	0,102
PVC powder (Vinoflex)			1,5	20	68		
PVC powder A			1,9	20	68		
PVC powder N			1,5	20	68		
PVC pwder, pure			1,3	20	68		
p-xylene	C_8H_{10}		2,23	13,2	55,76		
p-xylene	C_8H_{10}		2,269	20	68		
p-xylene	C_8H_{10}		2,259	25	77		
p-xylene	C_8H_{10}		2,25	30	86		
p-xylol	C_8H_{10}		2,27	20	68		
p-xylol	C_8H_{10}		2,259	25	77		
p-xylol	C_8H_{10}		2,25	30	86		
pycrite			33,6	20	68		
pyrazine	$C_4H_4N_2$		2,8	50	122		
pyridine	C_5H_5N		13,23	20	68		
pyridine	C_5H_5N		12,3	25	77		
pyrrole	C_4H_5N		8	20	68		
pyrrole	C_4H_5N		8,315	25	77		

Q

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
quartz powder			1,5	20	68		
quartz powder "Sipur" 0…0.12 mm			1,79	20	68		
quartz powder "Sipur" 0…0.2 mm			1,83	20	68		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
quartz rock powder			2,67	20	68		
quartz sand			2,6	20	68		
quartz sand MZK after sifting		1,8		RT	RT	992	0,992
quartz sand, new West German sand		2,3		RT	RT	1523	1,523
quartz sand, used furnace 2		2		RT	RT	1266	1,266
quartz silver sand Type HA 40			2,56	20	68		
quartz silver sand Type HA 40			2,5	20	68		
quicklime			2	20	68		
quinoline	C_9H_7N		8,8	20	68		
quinoline	C_9H_7N		9,22	25	77		

R

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
rape (16 % moisture)			21	20	68		
rape, dried			3,33	20	68		
rape, grist			2,08	20	68		
raw tar with 4.1 % moisture)			5,5	20	68		
refined sugar			2,06	20	68		
reflective beads, 0.2% moisture			1,25	20	68		
reflective beads, 1% moisture			1,27	20	68		
reflective beads, 2% moisture			1,33	20	68		
reflective beads, 3% moisture			1,5	20	68		
resin			1,5	20	68		
resin			30	20	68		
resin, carbonised			1,3	20	68		
resin, leguval			5,33	20	68		
resin, natural		2,2		RT	RT	653	0,653
resin, polyester "Atlas",+C2480 Pechiney			2,3	20	68		
resin, technical purity			24,5	20	68		
rice			5,1	20	68		
rice, long grained		3,2		RT	RT	826	0,826
rich coal			3,4	20	68		
ricinoleic acid isobutyl ester	$C_{22}H_{42}O_3$		4,7	21	69,8		
ride		3,01		RT	RT	771	0,771
roasted malt			26	20	68		
rock salt 0-25 mm			4,3	20	68		
rodent feed			2,3	20	68		
Rohmantan wax 0.5 - 2 mm			2	20	68		
rough-cast glass mixture			3,1	20	68		
rubber			2,2	20	68		
rubber filling with 2.5 % moisture			1,35	20	68		
rubber filling with 7.5 % moisture			2,04	20	68		
rye		6		RT	RT		
rye bran			2,2	20	68		

S

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
S					32		
saccharose solution 16.5%			21,9	20	68		
saccharose solution 47%			19,75	20	68		
saccharose solution 51.3%			18,75	20	68		
safrol	$C_{10}H_{10}O_2$		3,06	20	68		
salamita, seasoning			2,8	20	68		
salicyl aldehyde	$C_7H_6O_2$		18,9	20	68		
salicyl aldehyde	$C_7H_6O_2$		17,91	30	86		
salicyl aldehyde	$C_7H_6O_2$		16,374	40	104		
Salol, phenyl salicylate	$C_{13}H_{10}O_3$		6,4	42	107,6		
salt coating			7,5	20	68		
salt water			32	20	68		
salt, marine salt, for aquariums		2,4		RT	RT	1223	1,223
sand slurry			32,6	20	68		
sand, moulding			23,7	20	68		
sand, moulding, dry			22	20	68		
sand, silver			2,8	20	68		
Santovex			1,7	20	68		
satin white			22,5	20	68		
sawdust		1,3		RT	RT	169	0,169
seed, mustard			3,56	20	68		
selenium	Se		5,44	237,5	459,5		
shavings-dust, dry			1,3	20	68		
shavings-dust, moist			2	20	68		
Silex			2,06	20	68		
siliceous sinter (calcareous sediment)			7,5	20	68		
siliceous sinter with 10 % Fe chippings (calcareous sinter)			9	20	68		
silicic acid	SiO_2		12	20	68		
silicic acid	SiO_2	1,25		RT	RT		
silicolloid			2,1	20	68		
silicon carbide (120+f)			7	20	68		
silicon carbide (8+f)			12	20	68		
silicon tetrachloride	$SiCl_4$		2,4	16	60,8		
silicone oil	$C_{134}H_{402}O_{66}Si_{67}$		2,72	20	68		
silicone rubber			2,88	20	68		
silicus		1,1		RT	RT	102	0,102
Sillitin N			3,28	20	68		
Silteg			2,2	20	68		
skim milk, powder			2,25	20	68		
skim milk, powder (roller process)			1,83	20	68		
skim milk, powder (tower process)			1,63	20	68		
skin cream			19	20	68		
skin cream			19	20	68		
slate flour			2,62	20	68		
slate flour			7,83	20	68		
sludge, pyrites			30	20	68		
soap, flakes			9,15	20	68		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
soap, liquid			23,4	90	194		
soap, pelleted		3,5		RT	RT	735	0,735
soap, raw materials			24	90	194		
soap, soft			32	20	68		
soda	Na_2CO_3	5,6		RT	RT		
soda	Na_2CO_3	4,6		RT	RT		
soda (BASF)	Na_2CO_3	5,1		RT	RT		
sodium carbonate, calc,	Na_2CO_3		3	25	77		
sodium hydroxide	NaOH		25,8	20	68		
sodium hydroxide	NaOH		22,5	20	68		
sodium methylate	$NAOCH_3$		1,5	20	68		
sodium perborate	$NaBO_2$		2,2	20	68		
sodium perborate	$NaBO_2$		3,5	20	68		
sodium peroxide	$Na2O_2$		2,66	20	68		
sodium silicofluoride			2,72	20	68		
sodium sulphate calc.	$Na_2 SO_3$		2,7	25	77		
sodium tripolyphosphate			4,7	25	77		
Sofix			25	20	68		
soft soap			32	20	68		
Solbo			21,16	20	68		
soligen zink			1,45	150	302		
solvent			18	20	68		
solvent, pure			4,97	20	68		
soot	C		18,8	20	68		
sorbit	$C_6H_{14}O_6$		35,5	80	176		
sorbit	$C_6H_{14}O_6$		20	20	68		
sorbit solution, 50%			18,5	20	68		
sorbit solution, 50%			21	100	212		
sorbo			21,16	20	68		
soya coarse meal (19 % moisture)			18	20	68		
soya coarse meal (dry)			2,93	20	68		
soya flour			4,5	20	68		
spices, mustard			24	20	68		
S-PVC		1,4		RT	RT	509	0,509
Stabifix Super 1,6 K306 ready-to-use		2		RT	RT		
stabiliser 17 Mol			6,7	20	68		
Stabiquick		3,1		RT	RT		
stannic tetrachloride	$SnCl_4$		2,89	20	68		
stannic tetrachloride	$SnCl_4$		3,2	22	71,6		
starch, potato (Aeromyl 33)		1,7		RT	RT	163	0,163
Statyla 121 L			5,77	20	68		
stearate (2458 a)			1,05	20	68		
stearate (2458 b)			1,4	20	68		
stearate (2458 c)			1,12	20	68		
stearic acid	$C_{18}H_{36}O_2$		2,29	20	68		
stearic acid	$C_{18}H_{36}O_2$		2,224	74,5	166,1		
stearic acid	$C_{18}H_{36}O_2$		2,26	100	212		
stearic acid (2-methoxy ethyl ester)	$C_{21}H_{42}O_3$		3,387	50	122		
styrol	$C_2H_3C_6H_5/C_8H_8$		2,431	25	77		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
styrol	$C_2H_3C_6H_5/C_8H_8$		2,321	75	167		
succinonitrile	$C_4H_4N_2$		56,5	57,4	135,32		
succinonitrile	$C_4H_4N_2$		53,6	67,7	153,86		
succinonitrile	$C_4H_4N_2$		52,3	78,2	172,76		
sugar		1,8		RT	RT	926	0,926
sugar, crystal			2	20	68		
Sulan RZ			31,8	20	68		
Sulforrat LUB 859/MP 3764			2,8	20	68		
Sulfrin (hair care product)			33,3	20	68		
sulphate, fine			3,6	20	68		
sulphite, spent liquor			32	20	68		
sulphur	S		3,52	20	68		
sulphur chloride	S_2Cl_2		4,79	15	59		
sulphur dioxide	H_2SO_3		17,73	-21	-5,8		
sulphur dioxide	H_2SO_3		15	0	32		
sulphur dioxide	H_2SO_3		13,75	14,5	58,1		
sulphur dioxide	H_2SO_3		14	20	68		
sulphur trioxide	SO_3		3,11	18	64,4		
sulphuric acid	H_2SO_4		21,9	20	68		
sulphuric acid, 15%	H_2SO_4		31	20	68		
sulphuric acid, 95 %	H_2SO_4		8,3	20	68		
sulphuric acid, 96 %	H_2SO_4		7,76	20	68		
sulphuric acid, 96 %	H_2SO_4		5	20	68		
sulphuric acid, 97%	H_2SO_4		8,64	20	68		
sulphuric acid, 98%	H_2SO_4		7,18	20	68		
sulphuric acid, conc.	H_2SO_4		3,5	21	69,8		
sulphuric acid, diethyl ester	$C_4H_{10}O_4S$		29,2	20	68		
sulphuryl chloride	SO_2Cl_2		9,2	20	68		
sulphuryl chloride	SO_2Cl_2		8,5	25	77		
sunflower expeller 3381			2,1	20	68		
sunflower seeds		1,95		RT	RT	382	0,382
sunflower seeds, 6 hours drying			2,1	20	68		
sunflower seeds, normal moisture			3,4	20	68		
Sunil (washing powder)			3,4	20	68		
Sunlicht washing powder			2,4	20	68		
Sylosiv S393		1,6		RT	RT	568	0,568
sym. trinitrobenzene	$C_6H_3O_6N_3$		7,21	127	260,6		
synthetic resin			2,3	20	68		
synthetic resin			13,6	20	68		
syrup (Afri-Cola)			17,3	20	68		

T

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
table salt I	NaCl		3,3	20	68		
table salt II	NaCl		3,5	20	68		
table wine			25	20	68		
talc			3,6	20	68		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
talc		1,9		RT	RT	652	0,652
talcum powder			1,5	20	68		
tankage approx. 10% fat			2,2	20	68		
tapioca			2,7	20	68		
tapioca roots			2,56	20	68		
tar paste BT 80/125 with bitumen			4	20	68		
tar paste T 40/60, very thin			4,67	20	68		
tar paste Tv 49/51, very thick			4,33	70	158		
tar scrubber			2,9	20	68		
tar, crude			4	20	68		
tar, crude with 4.1% moisture			5,5	20	68		
tar, oil			3,75	30	86		
tar, oil			3,9	60	140		
tar, oil			3,95	80	176		
tar, oil			4,3	120	248		
tartaric acid	HOOC-CHOH-CHOH-COOH		35,9	20	68		
tea dust			2	20	68		
tent impregating agent			2,2	20	68		
terephthalic acid			1,5	20	68		
terpentine substitute			2	20	68		
terpinene	$C_{10}H_{16}$		2,7	20	68		
terpinene	$C_{10}H_{16}$		2,452	25	77		
terpinene	$C_{10}H_{16}$		2,273	25	77		
terpineol	$C_{10}H_{18}O$		2,75	20	68		
terpinolene	$C_{10}H_{16}$		2,291	25	77		
test material S2			1,4	20	68		
tetrabromoethane	C2 H_2 Br_4		5,6	20	68		
tetrabromoethane(1,1,2,2-)	$C_2H_2Br_4$		6,7	20	68		
tetrachloroethane (1,1,2,2-)	$C_2H_2Cl_4$		7,93	-40	-40		
tetrachloroethane (1,1,2,2-)	$C_2H_2Cl_4$		14,5	-42	-43,6		
tetrachloroethane (1,1,2,2-)	$C_2H_2Cl_4$		12,9	-30	-22		
tetrachloroethane (1,1,2,2-)	$C_2H_2Cl_4$		8,15	16	60,8		
tetrachloroethane (1,1,2,2-)	$C_2H_2Cl_4$		8,08	20	68		
tetrachloroethylene	$C2Cl_4$		2,2	20	68		
tetrachloroethylene	C_2Cl_4		2,37	16	60,8		
tetrachloroethylene	C_2Cl_4		2,5	20	68		
tetrachloroethylene	C_2Cl_4		2,36	25	77		
tetrachloro-m-xylol	$C_8H_6Cl_4$		5,4	20	68		
tetradecamethylcycloheptasiloxane	$C_{14}H_{42}O_7Si_7$		2,68	20	68		
tetradecamethylcyclotetrasiloxane	$(C_2H_6OSi)_n$		2,68	20	68		
tetradecamethylhexasiloxane	$C_{14}H_{42}O_5Si_6$		2,5	20	68		
tetradecamethylhexasiloxane	$C_6H_{18}OSi_2(CH_3)_3Si$ $[OSi(CH_3)_2]nCH_3$		2,5	20	68		
tetradecane	$C_{14}H_{30}$		2,04	20	68		
tetradecanol-(1)	$C_{14}H_{30}O$		4,71	40	104		
tetradecanol-(1)	$C_{14}H_{30}O$		4,42	50	122		
tetradecanol-(1)	$C_{14}H_{30}O$		3,69	80	176		
tetradecyl bromide	$C_{14}H_{29}Br$		3,84	25	77		
tetradecylamine	$C_{14}H_{31}N$		2,9	40	104		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
tetradecyldiethyl phophonate	$C_{18}H_{39}O_3P$		4,63	32	89,6		
tetraethyl methane	C_9H_{20}		1,99	15,5	59,9		
tetraethyl methane	C_9H_{20}		2	30	86		
tetraethyl silane	$C_5H_{20}Si$		2,09	20	68		
tetraethyl silicate	$C_8H_{20}O_4Si$		4,1	20	68		
tetrahydrofuran	C_4H_8O		7,58	20	68		
tetrahydrofuran	C_4H_8O		7,39	25	77		
tetrahydrofuran	C_4H_8O		7,25	30	86		
tetrahydrofuran	C_4H_8O		7,16	35	95		
tetrahydronaphthalene	$C_{10}H_{12}$		2,66	20	68		
tetrahydronaphthalene	$C_{10}H_{12}$		2,744	30	86		
tetrahydronaphthol-(2)	$C_{10}H_{12}O$		11,7	20	68		
tetrahydroxybutane	$C_4H_{10}O_4$		28,2	120	248		
tetramethylene chloride	$C_4H_8Cl_2$		8,9	25	77		
tetramethylpentanone-(3)	$C_9H_{18}O$		10	14,5	58,1		
tetramethylsilane	$C_4H_{12}Si$		1,921	20	68		
tetramethylsilicate	$C_4H_{12}O_4Si$		6	20	68		
tetranitomethane	CO_8N_4		2,317	20	68		
tetranitomethane	CO_8N_4		2,521	25	77		
tetrasodium pyrophosphate			5,7	25	77		
tetratriacontadiene	$C_{34}H_{66}$		2,82	25	77		
Texapon			18,6	20	68		
thermoplastic			1,15	20	68		
thioacetic acid	C_2H_4OS		12,8	20	68		
thionyl bromide	$SOBr_2$		9,06	20	68		
thionyl chloride	$SOCl_2$		9,25	20	68		
thionyl chloride	$SOCl_2$		9,05	22	71,6		
thiophene	C_4H_4S		2,766	15	59		
thiophene	C_4H_4S		2,76	20	68		
thiophosphoryl chloride	$PSCl_3$		5,8	20	68		
Thomas potassium dust, 5% moisture			27,6	20	68		
Thomas potassium dust, dry			3,4	20	68		
thujanon	$C_{10}H_{16}O$		10,8	0	32		
titanium chloride	$TiCl_4$		2,8	20	68		
TM chips			3	20	68		
tobacco cord, loose			13,4	20	68		
tobacco cord, tight			16	20	68		
tobacco dust			1,8	25	77		
TOCP triorothocresolphosphate	$C_{21}H_{21}O_4P$		6,7	25	77		
TOCP triorothocresolphosphate	$C_{21}H_{21}O_4P$		6,9	40	104		
toluene	$C_6H_5CH_3$		2,438	0	32		
toluene	$C_6H_5CH_3$		2,385	20	68		
toluene	$C_6H_5CH_3$		2,378	25	77		
toluene	$C_6H_5CH_3$		2,364	30	86		
toluene	$C_6H_5CH_3$		2,275	75	167		
toluene	C_7H_8		2,3	20	68		
toluene, moist	$C_6H_5CH_3$		2,5	20	68		
tolyl-2-methyl-propane	$C_{11}H_{16}$		2,33	20	68		
tolyl-2-methyl-propane	$C_{11}H_{16}$		2,313	30	86		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
tolyl-2-methyl-propane	$C_{11}H_{16}$		2,25	20	68		
tolyl-2-methyl-propane	$C_{11}H_{16}$		2,234	30	86		
Tonsil 13			7,4	20	68		
Tonsil L 80 with 0.5 % water			1,3	20	68		
Tonsil L 80 with 1.8 % water			1,5	20	68		
Tonsil L 80 with 10.8 % water			5	20	68		
Tonsil Optimum			3,8	20	68		
toothpaste, Blendax			24	20	68		
toothpaste, Lacalut			33	20	68		
toothpaste, Lacalut			18,3	20	68		
toothpaste, Pepsodent			18,3	20	68		
toothpaste, Signal			18,33	20	68		
totanin solution			2,3	20	68		
trans-diiodo ethylene	$C_2H_2I_2$		3,19	77	170,6		
transformer oil			2,1	20	68		
trans-hexene-(3)	C_6H_{12}		1,954	20	68		
trans-hexene-(3)	C_6H_{12}		2	25	77		
trans-octene-(3)	C_8H_{16}		2,002	25	77		
trans-octene-(4)	C_8H_{16}		2,004	25	77		
TRI			3,16	20	68		
Triacetin	$C_9H_{14}O_6$		7,19	20	68		
Triacetin 3859			4,2	20	68		
tribromopropane	$C_3H_5Br_3$		6,45	20	68		
tributylphosphate	$C_{12}H_{27}O_4P$		7,96	30	86		
trichlor-2,2-di-(4-chlorphenyl)-ethane	$C_{14}H_9Cl_5$		2,9	104	219,2		
trichlor-2,2-di-(4-chlorphenyl)-ethane	$C_{14}H_9Cl_5$		2,381	145	293		
trichloroacetaldehyde	C_2HCl_3O		5,044	14,5	58,1		
trichloroacetaldehyde	C_2HCl_3O		6,67	20	68		
trichloroacetate anhydride	$C_4Cl_6O_3$		5	25	77		
trichloroacetonitrile	C_2Cl_3N		7,85	19	66,2		
trichlorobenzene	$C_6H_3Cl_3$		3,98	20	68		
trichlorobenzene	$C_6H_3Cl_3$		3,945	25	77		
trichlorobutyraldehyde	$C_4H_5Cl_3O$		10	18	64,4		
trichloroethane	$C_2H_3Cl_3$		7,2	20	68		
trichloroethane	$C_2H_3Cl_3$		7,29	20	68		
trichloroethylene	C_2HCl_3		3,4	20	68		
trichlorohememellitene	$C_9H_9Cl_3$		8,6	20	68		
trichloropseudocumol	$C_9H_9Cl_3$		6,4	20	68		
trichlorotoluene	$C_7H_5Cl_3$		6,29	25	77		
trichlorotoluene(a,a,a-)	$C_7H_5Cl_3$		6,9	21	69,8		
trichlorotoluene(a,a,a-)	$C_7H_5Cl_3$		9,18	30	86		
trichlorotoluene(a,a,a-)	$C_7H_5Cl_3$		8,09	60	140		
trichlorotrifluoroethane	$CCl\ F_2\text{-}CCl_2F$		1,68	20	68		
Trichlor-propan	$C_3H_5Cl_3$		7,5	20	68		
tricholoracetic acid	$C_2HCl_3O_2$		4,55	61	141,8		
tricholoroethylene acetate	$C_4H_5Cl_3O_2$		7,8	20	68		
Tricosal 181			2,27	20	68		
Tricosal D			2,56	20	68		
tricosanol-(12)	$C_{23}H_{46}O$		2,1	20	68		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
tricosanol-(12)	$C_{23}H_{46}O$		4,05	80	176		
Tridecan	$C_{13}H_{28}$		2,026	20	68		
tridecylbromide	$C_{13}H_{27}Br$		4,19	8	46,4		
tridecylbromide	$C_{13}H_{27}Br$		4,18	12,7	54,86		
triethyl benzene	$C_{12}H_{18}$		2,256	20	68		
triethyl benzene	$C_{12}H_{19}$		2,243	30	86		
triethylaluminium	$Al(C_2H_5)_3$		2,9	20	68		
triethylaluminium	$C_6H_{15}Al$		2,9	20	68		
triethylamine	$C_6H_{15}N$		2,425	20	68		
triethylamine	$C_6H_{15}N$		2,42	25	77		
triethylcarbinol	$C_7H_{16}O$		3,16	20	68		
triethylsilane	$C_6H_{10}Si$		2,323	20	68		
triflouromethane	CCl_3F		193	20	68		
trifluoroacetic acid	$C_2HF_3O_2$		8,42	20	68		
trifluoroacetic acid	$C_2HF_3O_3$		8,2	25	77		
trifluoroacetic anhydride	$C_4F_5O_3$		2,7	25	77		
trifluoromethylcyclohexane	$C_7H_{11}F_3$		11,9	-85	-121		
trifluorotoluene	$C_7H_5F_3$		9,18	30	86		
trifluorotoluene	$C_7H_5F_4$		8,09	60	140		
trilon			1,8	20	68		
trimethy-benzene	C_9H_{12}		2,636	20	68		
trimethy-benzene	C_9H_{12}		2,378	20	68		
trimethy-benzene	C_9H_{12}		2,359	30	86		
trimethy-benzene	C_9H_{12} / $C_6H_3(CH_3)_3$		2,27	20	68		
trimethyl benzene	C_9H_{12}		2,378	20	68		
trimethyl benzene	C_9H_{12}		2,359	30	86		
trimethyl borate	$C_3H_9O_3B$		8	20	68		
trimethylamine	C_3H_9N		2,57	0	32		
trimethylamine	C_3H_9N		2,95	4	39,2		
trimethylamine	C_3H_9N		2,496	16	60,8		
trimethylamine	C_3H_9N		2,44	25	77		
trimethylbenzene	C_9H_{12}		2,636	20	68		
Trimethyl-butane	C_7H_{16}		1,93	20	68		
trimethylchinon			3	20	68		
trimethylene glycol	$C_3H_8O_2$		35	20	68		
trimethylene glycol	$C_3H_8O_2$		35	20	68		
trimethylheptene-(3)	$C_{10}H_{20}$		2,293	20	68		
trimethylpentane	C_8H_{18}		1,96	20	68		
trimethylpentane	C_8H_{18}		1,943	20	68		
trimethylpentane	C_8H_{18}		1,978	20	68		
trimethylpentane	C_8H_{18}		1,973	20	68		
trimethylpentene(4)	C_8H_{16}		2,09	25	77		
tri-n-propylamine	$C_9H_{21}N$		2,277	20	68		
triolein	$C_{57}H_{104}O_6$		3,2	25	77		
tripalmitin	$C_{51}H_{98}O_6$		2,9	55	131		
tripalmitin	$C_{51}H_{98}O_6$		2,927	60	140		
tripalmitin	$C_{51}H_{98}O_6$		2,895	70	158		
tripalmitin	$C_{51}H_{98}O_6$		2,954	80	176		
tripalmitin	$C_{51}H_{98}O_6$		2,924	120	248		

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
triperfluorobutylamine	$C_{12}F_{27}N$		2,15	20	68		
triphenylmethane	$(C_6H_5)_3CH$		2,45	20	68		
triphenylmethane	$(C_6H_5)_3CH$		2,46	94	201,2		
tristearin	$C_{57}H_{110}O_6$		2,785	70	158		
tristearin	$C_{57}H_{110}O_6$		2,751	80	176		
trotin			5	20	68		
tufofusin B			22	20	68		
tufofusin B			20,5	110	230		
tufofusin LC			23	20	68		

U

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
Ultralan, clean oil			1,9	20	68		
Ultrasil			1,4	20	68		
undecane	$C_{11}H_{24}$		2,004	20	68		
undecanone-(2)	$C_{11}H_{22}O$		8,3	12,1	53,78		
undecanone-(2)	$C_{11}H_{22}O$		8,4	14,5	58,1		
undecyl bromide	$C_{11}H_{23}Br$		4,74	-0,3	31,46		
undecyl bromide	$C_{11}H_{23}Br$		4,63	-3,3	26,06		
undecyl bromide	$C_{11}H_{23}Br$		4,61	-0,6	30,92		
urea	N_2H_4	2,9		RT	RT		
Urecoll B 3635			25	20	68		
urethane	$C_3H_7NO_2$		14,2	20	68		

V

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
valeraldehyde	$C_5H_{10}O$		11,76	15	59		
valeric acid	$C_5H_{10}O_2$		2,67	20	68		
valeric acid	$C_5H_{10}O_2$		2,67	20	68		
vanadium tetrachloride	VCl_4		3,05	25	77		
vanadium tribromide oxide	$VOBr_3$		4,4	-70	-94		
vanadium tribromide oxide	$VOBr_3$		3,6	25	77		
vanadium trichloride oxide	$VOCl_3$		3,4	25	77		
vaselin oil			1,6	20	68		
veratrol	$C_8H_{10}O_2$		4,5	23	73,4		
vinoflex (PVC powder)			1,5	20	68		
vinyl cartsazol			1,5	20	68		
vinyl ether	C_4H_6O		3,94	20	68		
vinyl-ethyl-benzene	$C_{10}H_{12}$		3,35	25	77		
viscose			34,5	20	68		
Voll-Sprüh, milk powder, dry			2	20	68		

W

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
wash (pig feed)			3,9	20	68		
wasil			32,8	20	68		
water	H_2O		22	25	77		
water	H_2O		20,4	120	248		
water	H_2O		80,3	20	68		
water	H_2O		78,54	25	77		
water	H_2O		34,5	200	392		
water	H_2O		10,1	364	687,2		
water glass			16	20	68		
water glass binder			40,3	20	68		
water, demineralised	H_2O		29,3	20	68		
water, heavy	D_2O		78,25	25	77		
water, heavy (99.95%)	D_2O		78,25	25	77		
wax			1,8	20	68		
waxy candles			1,8	30	86		
wheat		6,2		RT	RT		
wheat A			5,66	20	68		
wheat B			4	20	68		
wheat bran		1,69		RT	RT	244	0,244
wheat bran		1,5		RT	RT	203	0,203
wheat bran 3381			2,6	20	68		
wheat gluten		1,9		RT	RT	587	0,587
wheat starch		2,5		RT	RT	573	0,573
wheel swarf, fine		1,6		RT	RT		
wheel swarf, medial		1,5		RT	RT		
wheel swarf, surfacing		1,5		RT	RT		
white lime		1,5		RT	RT	536	0,536
white lime, loose		1,38		RT	RT	366	0,366
white lime, sifted		1,61		RT	RT	537	0,537
Wisprofloc			3,71	20	68		
wood chippings, wood moist			2,3	20	68		
wood pulp dust			1,53	20	68		
wood shavings, coarse and compact		1,4		RT	RT	120	0,12
wood shavings, coarse and loose		1,1		RT	RT	46	0,046
wood shavings, dry			1,2	20	68		
wood shavings, dry			1,3	20	68		
wood shavings, dry			1,2	20	68		
wood shavings, fine and compact		1,3		RT	RT	137	0,137
wood shavings, fine and loose		1,1		RT	RT	50	0,05
wood shavings, moist			1,6	20	68		
wood shavings, moist			2	20	68		
wood shavings, moist			1,6	20	68		
wood ships			1,13	20	68		

X

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
xylid			2,3	20	68		
xylidine	$C_8H_{11}N$		4,9	20	68		
xylitol	$C_5H_{12}O_5$		40	20	68		
xylol	C_8H_{10}		2,3	20	68		

Y

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
yeast, dried			2	20	68		

Z

Nomenclature	formula	DK at 1 MHZ	DK 100 kHZ	temp. °C	temp. °F	material density [g/l]	material density SGU
				RT = room temperature			
zink oxide	ZnO_2		1,5	20	68		
zink oxide	ZnO_2		2,3	20	68		
zink, powder		4,4		RT	RT	2196	2,196
zink, soligen			1,45	150	302		