Reagents Diagnostica Chemicals

1978

MERCK

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E. Merck, Darmstadt

Dr. Theodor Schuchardt & Co.

The purchaser, in placing an order, recognizes our terms of sale. Any different arrangements, and in particular any conflicting terms of business, require our express written agreement.

These terms of sale apply only to the sales range of E. Merck, Darmstadt (see part 1 of this catalogue). It is not possible to apply these terms of sale to orders for **MERCK-Schuchardt** preparations listed in part 2 of this catalogue, since the latter are supplied solely by the firm

Dr. Theodor Schuchardt & Co.
Industriesiedlung
D-8011 Hohenbrunn

Dr. Theodor Schuchardt & Co. has its own terms of sale as set out in part 2 of this catalogue, these terms applying to the supply of all **MERCK-Schuchardt** preparations. We would ask you, therefore, to order **MERCK-Schuchardt** preparations directly from Schuchardt and to refrain from ordering such preparations together with E. Merck's preparations.

Prices

The publication of this catalogue does not constitute an offer.

Prices are quoted without commitment.

Invoices will be made out in DM based on the prices in force on the day of consignment of the goods.

As far as the final purchaser is concerned these quotations are intended for general guidance only. They do not include any expenses which might be incurred by the importer or dealer through customs duties, customs handling, freight, insurance, taxes, etc. We therefore recommend that suppliers or dealers should be contacted regarding loco prices.

We supply goods from the Darmstadt works under the following terms:

Prices to include all packaging materials:

Prices as per this catalogue are to be understood free West German border, fob North Sea ports or Rhein-Main airport.

Express consignments: carriage-paid as far as West German border, not including extra freight charges.

Surface mail: ex works.

Orders for goods amounting to less than DM 1000,– cannot be entertained owing to the disproportionately high operating and handling costs.

The Merck box system

Merck's box system, incorporating a graduated price scheme, permits multiple lots of the smaller package units to be purchased with some considerable saving. The system is built up as follows:

box
box quartet = 4 boxes, all the same or different
box pallet = 24 boxes, all the same or different

It is not possible to group together different package sizes for one and the same item to make up a box.

We would ask that orders should be placed for the multiple units as listed above. In order to enable our customers to enjoy possible price advantages offered by these multiple packs, we shall adjust orders for odd amounts up or down, accordingly, as follows:

a) Orders smaller than a box:
Orders which correspond to 67% or more of a box will be rounded up to a box.

b) Orders larger than a box:
Orders where there is a remainder which corresponds to 50% or more of a box will be rounded up to the nearest box. Where the remainder corresponds to less than 50%, the order will be rounded down to the nearest box.

Packaging and consignment

We determine the type of packaging and mode of consignment to be employed from case to case. Any additional costs arising from the observance of customers' special requests regarding packaging or consignment (e. g. express delivery) will be charged separately to the customer.

Processing of orders

In the interest of our customers we endeavour to process and dispatch orders as rapidly as possible. We would ask, therefore, that when ordering attention be paid to the following points:

The order form should be filled out on one side only. Wherever possible, orders should be type-written with wide linespacing.

We require the following data, in the order given:

Catalogue number, number of units required, package size. We request that this order of data be strictly adhered to in order to avoid data processing errors. The name of the item ordered may, but does not have to be included, since the order is processed on the basis of the catalogue number. Any special requests regarding final packaging, dispatch and quality should be repeated in each order. We can take no responsibility for orders placed "as before" as this refers neither to the grade nor to the price. If an order is made following an offer on our part, this should be stated clearly, otherwise the goods will be delivered according to our normal terms of business.

Orders or offers placed by telephone become binding only after our written confirmation or after goods and invoice have been dispatched to the purchaser. Only our order confirmation is binding. We shall inform customers of possible later deliveries and of delivery dates on the order confirmation wherever possible or, alternatively, on the consignment invoice or delivery slip.

Small and large packages

In general, standard-size and bulk packages can only be supplied in those package sizes which are indicated in this catalogue.

If in exceptional cases a particular package size or form quoted in the catalogue is not in stock, we reserve the right to choose another size or form of packaging; possible price differences will be taken into consideration.

Please contact us concerning orders for quantities which are a multiple of our largest standard-size package.

Those items for which only bulk packages are mentioned in the catalogue cannot be supplied in standard-size packages.

Delivery

We endeavour to supply our goods as quickly as possible, but we can lay down no fixed period for delivery.

If, for reasons beyond our control, we should be prevented from fulfilling our commitments, in spite of reasonable efforts on our part, whether the hold-ups be within our factory, at our suppliers, at the haulage contractor or at the railway company, be they caused by industrial stoppages, delayed delivery of essential materials, or transport problems, then delivery or performance of the service by us may be delayed or cancelled in whole or in part. If, owing to the above circumstances, delivery or performance of the service is impossible, then we are automatically released from our obligation to supply the goods or to perform the service.

In the case of strike and lock-out, too, delivery or performance of the service may be delayed or cancelled accordingly; where delivery or performance of the service is impossible, we are automatically released from our obligation to supply the goods or to perform the service.

If, in the above cases, delivery is delayed, or we are released from our particular obligation, the purchaser can make no claims for compensation and has no right of cancellation.

If the purchaser is confronted with the above circumstances, then the same principles apply in respect of the purchaser's obligation to receive the goods.

Complaints, warranty, liability

Claims and complaints concerning delivery of other than the goods ordered can only be considered when they are presented to us within 14 days of receipt of the goods. They do not negate financial engagements.

In the case of justified, properly presented claims and complaints concerning delivery of other than the goods ordered, the goods at fault will, at our discretion, be exchanged or taken back against reimbursement of the purchase price.

Should a replacement consignment also turn out to be faulty, then the purchaser has the right to choose between redhibition or abatement.

Properly presented complaints of incomplete delivery will be followed by additional delivery or by an appropriate credit note, as we see fit.

Compensation claims made by the purchaser which result from negligent or deliberate violation of our contractual or legal duties will not be entertained, except where they are covered by a provision of the following paragraph:

Compensation claims made by the purchaser as a result of delayed delivery or circumstances for which we are held culpable are, with the exception of gross negligence and deliberate intent restricted to an amount corresponding to the purchase price of the outstanding part of the consignment, unless the purchaser proves that he has no interest in a partial fulfilment of the contract.

If damage has been caused through gross negligence, our liability Is limited to damage which could be foreseen as being the consequence of our neglectful act.

Dispatch

All consignments are dispatched at the customer's own risk.

Our products are packed carefully and in such a way that they comply with the terms of transportation. Therefore, we are not liable for any damages or losses that may occur during transportation. On request we will insure goods against breakage, theft and other forms of damage for a corresponding fee.

Insurance

Prices fob include insurance up to port of shipment. Insurance cover for delivery cif is effective from factory to customer's warehouse and includes an imaginary profit but does not include duty. The insurance is effective in respect of particular average, such as breakage, theft, etc. If damage occurs to a consignment for which insurance cover is arranged by us, the claim is to be filed immediately after the arrival of the goods. Please contact in this case the authorized agents of the underwriters as stipulated in the insurance certificate in order to obtain the survey report. Unless the survey is made without delay we are not in a position to acknowledge claims.

Dangerous goods

In this catalogue, products of dangerous nature (e. g. flammable, oxidising, corrosive, etc.) are marked by the class no. of the IMCO (Inter-governmental Maritime Consultative Organisation). This number is indicated, if applicable, behind the product name, in the column (IMCO) Volume. The classification is as follows:

Class:	Description:
1	explosive
2	gases
3.1	flammable liquids – FP below – 18°C
3.2	flammable liquids – FP – 18 to +23°C
3.3	flammable liquids – FP +23 to +61 °C
4.1	flammable solids
4.2	spontaneously combustible
4.3	dangerous when wet
5.1	oxidising agent
5.2	organic peroxides
6.1	poisonous
7	radioactive
8	corrosive
9	misc. dangerous substances

a) Shipment by sea freight:
With individual exceptions and subject to the shipping line's final decision, products covered by an IMCO class will probably be stowed on deck, especially classes 1–4.2. The lines also have the option of refusing to carry certain products.

Letters of credit:
Just to be on the safe side, we ask that letters of credit covering an assortment of chemicals and/or any product covered by an IMCO number should expressly permit shipment on deck.

b) Air freight:
IATA regulations do not follow IMCO rules; however, for obvious reasons air restrictions are imposed on most of the products bearing an IMCO classification. Restrictions for dispatch by combined passenger-cargo aircraft are generally more severe than those applying to all-cargo flights. In case of doubt, please contact your local IATA agent for detailed information, also because there are products which are considered to be dangerous by IATA regulations but are not covered by an IMCO Class number.

c) Dispatch by post:
IMCO-classified chemicals may not, as a rule, be sent by post. For small quantities of items under 3.3, 5.1, 6.1 and 9, exceptions might be permissible, depending on the individual product.

Payments received

In the case of bank transfers, bank cheques and postal cheques, payment is considered to have been made on the day on which we receive the credit advice from the bank, postal bank, or post office.

Place of performance

for the commitments of the vendor is the place from which delivery is made. Place of performance for the commitments of the purchaser, especially for payment, is Darmstadt.

Venue

for all disputes arising from deliveries is Darmstadt.

Retention of title

We retain ownership of all goods supplied by us until the purchaser has settled in full all liabilities resulting from his transactions with us.

The purchaser is, however, entitled to process the supplied goods, and mix them with other goods, in the normal course of his business. Wherever our ownership of the goods is extinguished by the processing or mixing, the purchaser automatically passes to us the title to the new goods created by the processing or mixing. The purchaser is obliged to keep the newly created goods in his safekeeping without charge.

The purchaser is entitled conditionally to resell the goods supplied by us, or the goods newly created by the processing or mixing, at any time in the normal course of his business. He hereby assigns to us by way of security the amount due to him from the resale of the goods owned, or jointly owned (§§ 947 Para. 1, 948 Federal German Civil Code) by us, to a sum corresponding to our total claim against him.

The purchaser is authorized and obliged to collect the outstanding sums assigned to us, provided that we have not revoked this authorization. This authorization to collect is extinguished without express revocation when the purchaser ceases payment. At our request the purchaser must inform us immediately in writing of the name of the buyer of the goods and what claims are due to him from that sale.

The purchaser is not entitled otherwise to dispose of the goods in question or the claims assigned to us. The purchaser must inform us immediately of any derogation from our right to the goods which belong to us; in particular, of any seizure or impoundment of the goods.

Should the purchaser not completely fulfill his obligations to us he must then upon request return the goods to us, without a withdrawal on our part from the contract.

We are obliged, upon request of the purchaser, to make over to him the title to the goods supplied by us and to the new goods created by processing or mixing, together with the claims assigned to us under Paragraph 3, in cases where their value exceeds the value of the sum due to us from the mutual business relations by more than 25%.

Return of goods

Goods may only be returned to us in exceptional circumstances and under the proviso that the goods are returned in unbroken original packages following a prior written agreement regarding their return. In such cases it is imperative to indicate the order-date or our invoice number. Goods must be sent back carriage-paid, addressed to:

E. Merck, Darmstadt
Bestimmungsbahnhof Darmstadt Hbf 1471

We reserve the right to determine manner of consignment and route.

We reserve the right to submit a bill to the sender for costs arising from the failure to comply with these directions.

The value of the credit note is dependent on the findings of the examination subsequently carried out here. All costs arising from examination and handling of the goods will be subtracted from the value of the goods.

All goods returned to us without our prior agreement will be sent back at the expense of and at the risk of the sender.

Settlement for the returned goods can only be made in the form of a credit note made out by us.

We regret that anti-pollution laws make it impossible for us to re-accept chemicals for disposal.

Return of packaging materials

All packaging materials are non-returnable.

Indications of purity

The purity of many of our products is indicated by means of guaranteed figures. These figures appear not only in this catalogue but also on the label of the respective container. If, in isolated instances, the details given in the catalogue should deviate slightly from those on the label, only the details on the label are valid. The guarantee, which only encompasses the substances and values given, refers merely to the quality of the products involved, and does not imply any indemnity against consequential loss or damage occasioned by any product's shortcomings. The values quoted are established from our own assay methods, details of which can be furnished if required. We reserve the right to alter testing procedures.

A number of other products are characterized by type analyses. Data contained in the type analyses are not guaranteed figures; we have thus fulfilled our contractual obligations even if there are slight deviations in individual values. Here, too, only the data quoted on the label are valid in case of doubt. Type analyses only encompass the substances and values quoted in the analytical data.

General

The addition of chemicals to foodstuffs (including luxuries) of any sort must follow the relevant statutory regulations. We can accept no responsibility for the observance of these rules outside our works.

Wherever the name of a product is followed by a reference to one or more pharmacopoeias, this means that each batch is analyzed to see that it meets with the purity requirements of the pharmacopoeias quoted. The release of a substance only ensues when our analysts are satisfied that it meets with the requirements of the pharmacopoeias mentioned. However, the processor is still obliged to observe the usual pharmacopoeial specifications when preparing solutions for injection and infusion; such solutions must still be prepared, filtered, sterilized and, if stipulated, subjected to a pyrogen test according to the respective pharmacopoeias.

We advise our customers regarding technical applications to the best of our knowledge within the scope of the possibilities open to us, but without any engagement on our part. This applies in particular in respect of any protected rights of third parties. Moreover, the sale of our products is not associated with the granting of a licence with respect to any of our protected rights. Our suggestions do not relieve our customers of the need to test our preparations on their own responsibility for suitability for the purpose envisaged.

Whenever official regulations must be observed in the delivery, storage, processing and trading of individual items, observance of these is the sole responsibility of the purchaser.

When selling products bearing our trademark, the following regulations of the Trademark Law must be observed:

Our registered trademarks (indicated on the labels ®), the name "MERCK", the crest symbol, the special design of the label ("Balken-Etikett"), and the product names may not be used on products of foreign origin, nor on repacked or processed materials originally supplied by us.

We would ask customers to refrain from the export of goods bearing our trademark – including deliveries to free zones: this is to avoid infringing the trademark rights or other protected rights of third parties in other countries.

The details given for liquids about the weight of one litre of that substance are intended only as a guide for conversion into kilograms.

The suffixes given for the optically active or racemic products do not refer to the optical rotation in aqueous solution, but to the absolute configuration.

Darmstadt, May, 1978

Abbreviations and Symbols

kg	=	kilogram
g	=	gram
mg	=	milligram
l	=	litre
ml	=	millilitre
m^3	=	cubic metre
mp	=	melting point
bp	=	boiling point
C. I.	=	Colour Index 2nd Edition 1956
S.	=	Schultz Farbstoff-Tabelle 7th Edition
Box quartet	=	4 boxes, all the same or mixed
Box pallet	=	24 boxes, all the same or mixed

Suprapur®	=	ultrapure products for research and development work
Titriplex®	=	EDTA and related compounds for complexometry
Titrisol®	=	concentrated solutions in ampoules
Uvasol®	=	products of high optical purity for spectroscopy
GR	=	guaranteed reagents for analysis work
Fotopur®	=	chemicals for the photographic industry
Iriodin®	=	nacreous pigments
Licristal®	=	liquid crystals (for temperature measuring, electronics industry, molecular spectroscopy)
Optipur®	=	chemicals for the production of single crystals
Patinal®	=	evaporation chemicals for vacuum deposition
Selectipur®	=	special-grade chemicals for applications in optics and electronics

	=	glass bottle
	=	glass bottle with glass stopper
	=	plastic bottle
	=	ampoule
	=	carton/bag
	=	tin can
	=	aluminium bottle
	=	glass container in steel jacket
	=	glass container in expanded polystyrene jacket
	=	plastic container
	=	metal drum
	=	metal drum with plastic insert
	=	metal can
	=	metal cask
	=	special carton
	=	sack

○	=	chemicals sensitive to heat
*	=	chemicals sensitive to cold temperatures
®	=	registered trademark
†	=	item will no longer be available after exhaustion of present stocks
⊙	=	internal symbol
+	=	for reasons arising from filling or packaging, we can only supply the standard package listed

IMCO Class

1	explosive
2	gases
3.1	flammable liquids – FP below –18°C
3.2	flammable liquids – FP –18 to +23°C
3.3	flammable liquids – FP +23 to +61°C
4.1	flammable solids
4.2	spontaneously combustible
4.3	dangerous when wet
5.1	oxidising agent
5.2	organic peroxides
6.1	poisonous
7	radioactive
8	corrosive
9	misc. dangerous substances

Pharmacopoeias

BP	=	British Pharmacopoeia
BPC	=	British Pharmaceutical Codex
Cod Franç	=	Codex Français
DAB	=	Deutsches Arzneibuch
Erg B	=	Supplement to the German Pharmacopoeia, published by "Deutscher Apotheker-Verein"
FCC	=	Food Chemical Codex
IP	=	Pharmacopoeia of India
JP	=	Japanese Pharmacopoeia
NF	=	The National Formulary
Ph Eur	=	European Pharmacopoeia
Ph Franç	=	Pharmacopée Française
Ph Ned	=	Dutch Pharmacopoeia
Ph Nord	=	Pharmacopoea Nordica
USP	=	United States Pharmacopeia

MERCK PRIVATE COMBINATION CODE

(C O P Y R I G H T)

The following list contains code words for use in cabling us orders or enquiries.

The code words do not interfere with other codes and may be safely used in conjunction with these.

It is imperative that you add your name (which need not necessarily be a registered telegraphic address).

If you receive a telegram, have the mutilated part repeated at your expense by your telegraph office, which will refund your outlay if the suspected words have been transmitted incorrectly.

Code words for quantities and packs

	or	0.25 g	1 g	5 g	10 g 10 ml	25 g 25 ml	50 g 50 ml	100 g 100 ml	250 g 250 ml	500 g 500 ml	1 kg 1 l	2½ kg	5 kg	bulk kg
Send		abacu	abfib	abmyh	abuky	acasc	achdo	acmyh	actyb	adaki	adhfi	adolu	advev	afbeg
	1×	abady	abfow	abnac	abulm	acatz	achec	acnah	acugs	adalo	adhgo	adomy	adviw	afbih
	2×	abagf	abfux	abned	abunx	acawk	achfu	acnik	acuhr	adamu	adhjy	adonx	advob	afboj
	3×	abahm	abfyd	abnib	aburp	acbat	achgy	acnol	acuja	adany	adibi	adorp	advuz	afbuk
	4×	abalb	abgat	abnog	abvaj	acbef	achid	acnum	acuke	adask	adico	adowf	advyb	afbyl
	5×	abamf	abgev	abnuh	abvek	acbiw	achof	acnyn	aculi	adawn	adidu	adpan	adwav	afcag
	6×	abaph	abgiw	abnyj	abvil	acbox	achug	acoba	acumo	adbaz	adify	adpep	adwew	afceh
	7×	abard	abgox	abobu	abvom	acbuz	achyh	acodi	acunk	adbeb	adigs	adpir	adwix	afcij
	8×	abasp	abguz	abocy	abvun	acbyb	achza	acofo	acupy	adbic	adihr	adpos	adwoz	afcok
	9×	abawa	abgyb	abogs	abvyp	accav	acics	acogu	acurf	adbod	adilc	adput	adwub	afcul
	10×	abaxe	abhav	abohr	abwak	accew	acikt	acohy	acusm	adbuf	adimt	adpyv	adwyc	afcym
	12×	abazi	abheb	abolc	abwel	accix	acild	acolg	acuth	adbyg	adirf	adrap	adxaw	afdah
	15×	abban	abhix	abomt	abwim	accoz	acimb	acomp	acvan	adcab	adism	adrer	adxex	afdik
	20×	abbce	abhoz	abonk	abwon	accub	acinf	acond	acvep	adcec	adith	adris	adxiz	afdol
	25×	abbdi	abhub	aborf	abwup	accyc	acisa	acork	acvir	adcid	adixa	adrot	adxob	afdum
	30×	abbep	abhyc	abosm	abwyr	acdaw	acite	acosh	acvos	adcof	adize	adruv	adxuc	afdyn
	35×	abbfo	abict	aboth	abxal	acdex	acivi	acowb	acvus	adcug	adjah	adryw	adxyd	afebu
	40×	abbgu	abifs	abova	abxem	acdiz	aciwo	acpab	acvyv	adcyh	adjik	adsar	adybo	afecy
	45×	abbhy	abihn	abowe	abxib	acdob	acixu	acpek	acwap	addba	adjol	adsby	adycu	afegs
	50×	abbir	abilg	aboxi	abxop	acduc	acizy	acpil	acwer	addce	adjum	adses	adydy	afehr
	60×	abbos	abima	abozo	abxur	acdyd	acjac	acpom	acwis	addfo	adjyn	adsit	adyft	afelc
	70×	abbut	abine	abpad	abxys	acebs	acjed	acpun	acwot	addgu	adkaj	adsov	adygn	afemt
	80×	abbyv	abipi	abpef	abybt	aceck	acjif	acpym	acwuv	addhy	adkeb	adsta	adyhm	afenk
	90×	abcap	abiro	abpig	abych	aceft	acjog	acrak	acwyw	addog	adkil	adsuw	adylb	aferf
	100×	abcer	abisu	abpoh	abyde	acegn	acjuh	acrel	acxar	adect	adkom	adsve	adymf	afesm
	150×	abcis	abity	abpuj	abygm	acehm	acjyj	acrim	acxes	adefs	adkun	adswi	adync	afeth
	200×	abcot	abjaw	abykp	abyhl	aceka	ackad	acron	acxit	adehn	adkyp	adsxo	adyph	afeva
	250×	abcuv	abjex	abraf	abyla	acele	ackef	acrup	acxov	adelg	adiak	adsyx	adyrd	afexi
	300×	abcyw	abjiz	abreg	abyme	acemi	ackig	acryr	acxuw	ademp	adiel	adszu	adysp	afezo
	350×	abdar	abjob	abrih	abyni	aceno	ackob	acsal	acxyx	adend	adlim	adtas	adywa	affaj
	400×	abdes	abjuc	abroj	abypo	acepu	ackpa	acsem	acygt	aderk	adlon	adtet	adyxe	affbe
	450×	abdit	abjyd	abruk	abyrb	acery	ackre	acsin	acyks	adesi	adlup	adtiv	adyzi	affca
	500×	abdov	abkax	abryl	abysy	acesp	acksi	acsna	acylm	adeto	adlyr	adtow	adzax	affdi
	600×	abduw	abkez	absag	abytz	acewl	ackto	acsop	acynx	adeve	admal	adtux	adzez	affek
	700×	abdyx	abkib	abseh	abzam	acfax	ackuj	acspe	acyra	adewy	admem	adtyz	adzib	affgu
	750×	abecs	abkoc	absij	abzen	acfez	ackvu	acsri	acyse	adfad	admin	adubt	adzoc	affhy
	800×	abefa	abkud	absok	abzip	acfib	ackwy	acsso	acyti	adfef	admop	aduch	adzud	affil
	900×	abege	abkyf	absul	abzor	acfoc	ackyk	acsur	acyvo	adfig	admur	aduda	adzyf	affip
	1000×	abehi	ablaz	absym	abzus	acfud	aclaf	acsvy	acywu	adfoh	admys	adugm	afact	affun
	1500×	abejo	ableb	abtah	abzyt	acfyf	acleg	acsys	acyxy	adfuj	adnam	aduhl	afafs	affyp
	2000×	abeku	ablic	abtik	acaca	acgaz	aclih	actam	aczas	adfyk	adnen	adulf	afahn	afgak
	2500×	abely	ablod	abtol	acade	acgeb	acloj	actes	aczet	adgaf	adnip	adumn	afalg	afgel
	3000×	abemb	abluf	abtum	acafi	acgic	acluk	actip	acziv	adgeg	adnor	adung	afama	afgim
	3500×	abenf	ablyg	abtyn	acago	acgod	aclyl	actla	aczow	adgih	adnus	adupe	afane	afgon
	4000×	aberl	abmab	abuda	acahu	acguf	acmag	actme	aczux	adgoj	adnyt	aduri	afapi	afgup
	4500×	abesk	abmec	abufe	acajy	acgyg	acmeh	actni	aczyz	adguk	adoga	aduso	afaro	afgyr
	5000×	abewn	abmid	abugi	acamn	achab	acmij	actpo	adacs	adgyl	adohe	adutz	afash	afhal
	7500×	abfas	abmof	abuho	acang	achbe	acmok	actsy	adagh	adhca	adoji	aduva	afaty	afhem
	10000×	abfet	abmug	abuju	acarb	achci	acmul	actus	adaha	adhde	adoko	advat	afbaf	afhin

Code words for quantities

afwec	...(send)	1	agbim	.....	40	aghes	.....	79	agmuc	.....	400
afwid	.....	2	agbon	.....	41	aghit	.....	80	agmyd	.....	450
afwof	.....	3	agbup	.....	42	aghow	.....	81	agnax	.....	500
afwug	.....	4	agbyr	.....	43	aghyx	.....	82	agnez	.....	560
afwyh	.....	5	agcal	.....	44	agich	.....	83	agnib	.....	600
afxac	.....	6	agcem	.....	45	agids	.....	84	agnoc	.....	650
afxed	.....	7	agcin	.....	46	agigm	.....	85	agnud	.....	700
afxif	.....	8	agcop	.....	47	agihl	.....	86	agnyf	.....	750
afxog	.....	9	agcur	.....	48	agija	.....	87	agobs	.....	800
afxuh	.....	10	agdam	.....	49	agike	.....	88	agock	.....	900
afxyj	.....	11	agden	.....	50	agili	.....	89	agogn	.....	1000
afyca	.....	12	agdip	.....	51	agimo	.....	90	agolb	.....	1100
afyde	.....	13	agdor	.....	52	aginu	.....	91	agomf	.....	1200
afyfi	.....	14	agdus	.....	53	agipy	.....	92	agoph	.....	1300
afygo	.....	15	agdyt	.....	54	agirb	.....	93	agora	.....	1400
afyjy	.....	16	ageba	.....	55	agisc	.....	94	agose	.....	1500
afykt	.....	17	agece	.....	56	agitz	.....	95	agoti	.....	1600
afymb	.....	18	agedi	.....	57	agjas	.....	96	agovo	.....	1700
afynf	.....	19	agefo	.....	58	agjet	.....	97	agowu	.....	1800
afyri	.....	20	agegu	.....	59	agjiv	.....	98	agoxy	.....	1900
afzad	.....	21	agehy	.....	60	agjow	.....	99	agpaz	.....	2000
afysk	.....	22	ageks	.....	61	agjux	.....	100	agpeb	.....	2500
afzef	.....	23	agelm	.....	62	agjyz	.....	110	agpic	.....	3000
afzig	.....	24	agenx	.....	63	agkat	.....	112	agpod	.....	3500
afzoh	.....	25	agerp	.....	64	agkev	.....	120	agpuf	.....	4000
afzuj	.....	26	agewf	.....	65	agkiw	.....	130	agpyg	.....	4500
afzyk	.....	27	agfan	.....	66	agkox	.....	140	agrab	.....	5000
agags	.....	28	agfep	.....	67	agkuz	.....	144	agrof	.....	5500
agalc	.....	29	agfir	.....	68	agkyb	.....	150	agrug	.....	6000
agamt	.....	30	agfos	.....	69	aglav	.....	160	agryh	.....	6500
agank	.....	31	agfut	.....	70	aglew	.....	170	agsac	.....	7000
agarf	.....	32	agfyv	.....	71	aglix	.....	180	agsed	.....	7500
agasm	.....	33	aggap	.....	72	agloz	.....	190	agsfa	.....	8000
agavi	.....	34	agger	.....	73	aglub	.....	200	agsge	.....	8500
agawo	.....	35	aggis	.....	74	aglyc	.....	224	agshi	.....	9000
agaxu	.....	36	aggot	.....	75	agmaw	.....	250	agsif	.....	9500
agazy	.....	37	agguv	.....	76	agmex	.....	300	agsjo	.....	10000
agbak	.....	38	aggyw	.....	77	agmiz	.....	336			
agbel	.....	39	aghar	.....	78	agmob	.....	350			

EVO/C

1562 Absorption tube for CO_2 8.0
(sodium hydroxide on support with saturation indication) length 15 cm, diameter 2 cm
(Pack cont. 6 tubes)

1 Pack	45.–	6x	40.10	24x	37.80	144x	35.60

6107 Absorption tube for H_2O
(molecular sieve 3 Å with indicator) length 15 cm, diameter 2 cm
(Pack cont. 6 tubes)

1 Pack	45.–	6x	40.10	24x	37.80	144x	35.60

Acacia see Gum arabic

10786 + AC broth for microbiology
(34.2 g for 1 litre of culture medium)

100 g	18.50	6x	17.40	24x	16.70	144x	15.70
500 g	79.–	6x	74.25	24x	71.–	144x	67.25

10704 Acedin A 3.3
(rinse water additive for offset printing)

60 kg Prices on application

10752 Acedin B
(alcohol-free rinse water additive for offset printing)

60 kg Prices on application

10761 Acedin C
(alcohol-free rinse water additive pH 5.5 for offset printing)

60 kg Prices on application

10844 Acedin D
(rinse water additive for offset printing)

60 kg Prices on application

821923 Acenaphthenequinone for synthesis
see part 2

820001 Acenaphthylene for synthesis
see part 2

800004 Acetaldehyde for synthesis 3.1
see part 2

5 Acetaldehyde for biochemistry 3.1
C_2H_4O MW 44.05 1 l = 0.78 kg
Type Analysis:

Assay (gc)	99.5 %	Copper (Cu)	0.0001 %
Boiling point	20–21° C	Zinc (Zn)	0.0001 %
Lead (Pb)	0.0001 %	Cadmium (Cd)	0.0001 %

500 ml	12.50	6x	11.15	24x	10.50	144x	9.90

801366 Acetaldehyde diethyl acetal for synthesis 3.1
see part 2

820002 Acetaldehyde dimethyl acetal for synthesis 3.1
see part 2

EVO/C

822343 Acetamide for synthesis
see part 2

8 Acetamide extra pure see 822343 Acetamide for synthesis, part 2

7 Acetamide technical grade see 822343 Acetamide for synthesis, part 2

800026 Acetamidinium chloride for synthesis
see part 2

800106 4-Acetamidobenzaldehyde for synthesis
see part 2

2-Acetamidofluorene see N-Fluoren-2-yl acetamide, part 2

2-Acetamido-3-mercaptopropionic acid see N-Acetyl-L-cystein

4-Acetamidophenol see 4'-Hydroxyacetanilide, part 2

Acetaminophen see 4'-Hydroxyacetanilide, part 2

11 Acetanilide standard for elementary analysis
C_8H_9NO MW 135.17
Certificate of Guarantee:

Carbon (C)	71.1 %	Nitrogen (N)	10.4 %
Hydrogen (H)	6.7 %	Oxygen (O)	11.8 %

Suitable for determination of C, H, N, O

5 g	11.50	6x	10.25	24x	9.65	144x	9.10

822344 Acetanilide for synthesis
see part 2

10 Acetanilide cryst. extra pure Ph Nord 1963
C_8H_9NO MW 135.17

1 kg	27.50	6x	24.50	24x	23.10	144x	21.70
50 kg	kg 16.50						

5265 +○ Acetate agar acc. to Trabulsi and Ewing for microbiology
(21.28 g for 1 litre of culture medium)

100 g	19.–	6x	17.90	24x	17.10	144x	16.20
500 g	68.–	6x	64.–	24x	61.25	144x	57.75

7827 Acetate buffer solution pH 4.66
(0.1 M acetic acid, 0.1 M sodium acetate)
1 l = 1.00 kg

1 l	17.50	6x	15.60	24x	14.70	144x	13.85

Acetic acid 3% see Hagedorn-Jensen's solutions

65 *+ Acetic acid 5%
1 l = 1.01 kg

1 l	12.50	6x	11.15	24x	10.50	144x	9.90

EVO/C

55 * Acetic acid glacial min. 96% Suprapur® 3.3

CH_3COOH MW 60.05 1 l = 1.06 kg

Certificate of Guarantee:

Assay	min. 96 %
Chloride (Cl)	max. $3 \cdot 10^{-5}$% (0.3 ppm)
Sulfate (SO_4)	max. $2 \cdot 10^{-5}$% (0.2 ppm)
Phosphate (PO_4)	max. $5 \cdot 10^{-7}$% (0.05 ppm)
Mercury (Hg)	max. $5 \cdot 10^{-7}$% (0.005 ppm)
Lead (Pb)	max. $5 \cdot 10^{-7}$% (0.005 ppm)
Copper (Cu)	max. $5 \cdot 10^{-7}$% (0.005 ppm)
Nickel (Ni)	max. $5 \cdot 10^{-7}$% (0.005 ppm)
Cobalt (Co)	max. $5 \cdot 10^{-7}$% (0.005 ppm)
Iron (Fe)	max. $1 \cdot 10^{-6}$% (0.01 ppm)
Zinc (Zn)	max. $1 \cdot 10^{-6}$% (0.01 ppm)
Cadmium (Cd)	max. $5 \cdot 10^{-7}$% (0.005 ppm)
Aluminium (Al)	max. $1 \cdot 10^{-6}$% (0.01 ppm)
Manganese (Mn)	max. $5 \cdot 10^{-7}$% (0.005 ppm)
Thallium (Tl)	max. $5 \cdot 10^{-7}$% (0.005 ppm)
Magnesium (Mg)	max. $1 \cdot 10^{-6}$% (0.01 ppm)
Calcium (Ca)	max. $5 \cdot 10^{-6}$% (0.05 ppm)
Strontium (Sr)	max. $5 \cdot 10^{-6}$% (0.05 ppm)
Barium (Ba)	max. $1 \cdot 10^{-5}$% (0.01 ppm)
Lithium (Li)	max. $5 \cdot 10^{-6}$% (0.05 ppm)
Sodium (Na)	max. $5 \cdot 10^{-6}$% (0.05 ppm)
Potassium (K)	max. $5 \cdot 10^{-6}$% (0.05 ppm)
Rubidium (Rb)	max. $5 \cdot 10^{-6}$% (0.05 ppm)
Cesium (Cs)	max. $5 \cdot 10^{-5}$% (0.5 ppm)

100 ml	25.75	6x	22.90	24x	21.60	144x	20.30
1 l	94.–	6x	83.75	24x	79.–	144x	74.25

62 * Acetic acid glacial min. 96% (about 1.06) GR 3.3

CH_3COOH MW 60.05 1 l = 1.06 kg

Certificate of Guarantee:

Assay of CH_3COOH	min. 96 %	Copper (Cu)	max. 0.00001 %
Non-volatile substances	max. 0.001 %	Iron (Fe)	max. 0.00002 %
Chloride (Cl)	max. 0.0001 %	Zinc (Zn)	max. 0.00001 %
Sulfate (SO_4)	max. 0.0001 %	Cadmium (Cd)	max. 0.00001 %
Lead (Pb)	max. 0.00001 %	Acetaldehyde	max. 0.0002 %

1 l	15.50	6x	13.50	15x	12.70	90x	12.10
2,5 l	33.–	4x	28.70	16x	27.10	96x	25.70
60 kg kg	6.35	6x	5.90				

46 + * Acetic acid glacial min. 96% (about 1.06) Selectipur® 3.3

CH_3COOH MW 60.05 1 l = 1.06 kg

2,5 l Prices on application

58 * Acetic acid glacial min. 96% (max. 1.058) extra pure 3.3
DAB 6

CH_3COOH MW 60.05 1 l = 1.06 kg

1 l	12.75	6x	11.10	24x	10.45	144x	9.95
2,5 l	26.50	4x	23.10	16x	21.70	96x	20.70
60 kg kg	4.–	6x	3.70				
		12x	3.50				

59 * Acetic acid glacial 99–100% (1.048–1.051) Fotopur® 3.3

CH_3COOH MW 60.05 1 l = 1.05 kg

2,5 l	24.25	4x	21.60	16x	20.40	96x	19.20
60 kg	Prices on application						

44 * Acetic acid glacial 99–100% (1.048–1.051) 3.3
MOS Selectipur® ASTM
dust class 0

CH_3COOH MW 60.05 1 l = 1.05 kg

2,5 l Prices on application

EVO/C

47 + * Acetic acid glacial 99–100% (1.048–1.051) Selectipur® 3.3

CH_3COOH MW 60.05 1 l = 1.05 kg

2,5 l Prices

60 kg ⊙ on application

56 * Acetic acid glacial 99–100% (1.048–1.051) extra pure, 3.3
DAB 7, Cod Franç 1965, USP XIX

CH_3COOH MW 60.05 1 l = 1.05 kg

Type Analysis:

Assay of CH_3COOH (acidimetric)	99.5 %	Iron (Fe)	0.0005 %
Chloride (Cl)	0.0005 %	Substances reducing $KMnO_4$ (as HCOOH)	0.01 %
Sulfate (SO_4)	0.0005 %	Non-volatile substances	0.005 %
Heavy metals (as Pb)	0.0005 %		

1 l	12.75	6x	11.10	15x	10.45	90x	9.95
2,5 l	26.50	4x	23.10	16x	21.70	96x	20.70
60 kg kg	4.–	6x	3.70				
		12x	3.50				

63 * Acetic acid glacial 100% (about 1.05) indifferent to 3.3
chromic acid GR

CH_3COOH MW 60.05 1 l = 1.05 kg

Certificate of Guarantee:

Assay of CH_3COOH	min. 99.8 %	Iron (Fe)	max. 0.00002 %
Non-volatile substances	max. 0.001 %	Zinc (Zn)	max. 0.00001 %
Chloride (Cl)	max. 0.0001 %	Cadmium (Cd)	max. 0.00001 %
Sulfate (SO_4)	max. 0.0001 %	Acetaldehyde	max. 0.0002 %
Lead (Pb)	max. 0.00001 %	Indifference to chromic acid	passes test
Copper (Cu)	max. 0.00001 %		

1 l	15.50	6x	13.50	15x	12.70	90x	12.10
2,5 l	33.–	4x	28.70	16x	27.10	96x	25.70
60 kg kg	6.35	6x	5.90				

9951 + 1 N Acetic acid Titrisol® concentrated
solution for preparation of 500 ml of 1 N solution

(Pack cont. 1 ampoule)

1 Pack	8.50	5x	7.55	20x	7.15	120x	6.70

9944 + 0.1 N Acetic acid Titrisol® concentrated
solution for preparation of 1 litre of 0.1 N solution

(Pack cont. 1 ampoule)

1 Pack	6.50	5x	5.80	20x	5.45	120x	5.15

37 Acetic acid-d_4 deuteration degree not less than 99.8% 3.3
for NMR spectroscopy Uvasol®

$C_2D_4O_2$ MW 64.08

1 ml	9.50	6x	8.45	24x	8.–	144x	7.50
10 ml	59.–	6x	52.50	24x	49.60	144x	46.60

2902 + Acetic acid-d_4 deuteration degree 3.3
not less than 99% for NMR spectroscopy Uvasol®

CD_3COOD MW 64.08 1 l = 1.12 kg

1 ml	8.50	6x	7.55	24x	7.15	144x	6.70
10 ml	48.–	6x	42.70	24x	40.30	144x	37.90

Acetic acid gentian violet solution see Türk's solution

EVO/C

11444 Acetic acid / acetic anhydride reagent 8.0
for Liebermann-Burchard cholesterol determination
1 l = 1.07 kg

1 l	38.75	6x	34.50	24x	32.60	144x	30.60

Acetic acid hydrazide see Acetohydrazide, part 2

Acetic acid 2-phenylhydrazide see 2-Phenylacetohydrazide, part 2

42 Acetic anhydride GR 8.0
$(CH_3CO)_2O$ MW 102.09
1 l = 1.08 kg

Certificate of Guarantee:

Assay (morpholine method)	min. 97 %	Cadmium (Cd)	max. 0.000005 %
Chloride (Cl)	max. 0.0002 %	Substances discoloured by H_2SO_4	passes test
Sulfate (SO_4)	max. 0.0005 %	Substances reducing $KMnO_4$ (as O)	max. 0.015 %
Lead (Pb)	max. 0.000005 %	Non-volatile substances	max. 0.003 %
Copper (Cu)	max. 0.000005 %		
Iron (Fe)	max. 0.0005 %		
Zinc (Zn)	max. 0.000005 %		

1 l	12.50	6x	10.90	15x	10.25	90x	9.75
2,5 l	26.–	4x	22.60	16x	21.30	96x	20.30
30 kg kg	4.65	6x	4.30				

822278 Acetic anhydride for synthesis 8.0
see part 2

41 Acetic anhydride extra pure 8.0
$(CH_3CO)_2O$ MW 102.09
1 l = 1.08 kg

Type Analysis:

Assay (vol.)	95 %	Sulfate (SO_4)	0.001 %
d 20°/4°	1.080–1.085	Non-volatile substances	0.005 %
Chloride (Cl)	0.001 %		

1 l	10.50	6x	9.15	24x	8.60	144x	8.20
2,5 l	21.50	4x	18.70	16x	17.60	96x	16.80
30 kg kg	3.40	6x	3.15				

3446 + Acetic anhydride-d_6 deuteration degree not less than 99% 8.0
$(CD_3CO)_2O$ MW 108.13
1 l = 1.14 kg

Certificate of Guarantee:

Assay (acidimetric)	min. 98 %	Free acid (as CO_3 COOD)	max. 2 %

5 ml	130.–	6x	115.75	24x	109.25	144x	102.75

820004 Acetoacetaldehyde-1-(dimethylacetal) for synthesis 3.3
see part 2

800078 Acetoacetanilide for synthesis
see part 2

800121 α-Acetobromoglucose for synthesis
stabilised with about 2% calcium carbonate
see part 2

820556 Acetohydrazide for synthesis
see part 2

Acetoin see 3-Hydroxy-2-butanone, part 2

Acetomenaphthone see 1,4-Diacetoxy-2-methylnaphthalene

Acetonaphthone see 2-Acetylnaphthalene, part 2

EVO/C

12 Acetone for residue analysis 3.1
CH_3COCH_3 MW 58.08
1 l = 0.79 kg

Certificate of Guarantee:

Assay (gc)	min. 99.8 %	Non-volatile substances	max. 0.000 5 %
Water	max. 0.1 %		

"Suitability for pesticide residue analysis: When using an ECD none of the interfering signals on the gas chromatogram is greater than the signal obtained with 5 ng/l each of lindane and DDT; with a PND none of the interfering signals is greater than that obtained with 5 ng/l each of parathion and coumaphos."

2,5 l	18.50	4x	16.50	16x	15.50	96x	14.60

14 Acetone GR 3.1
CH_3COCH_3 MW 58.08
1 l = 0.79 kg

Certificate of Guarantee:

Assay (gc)	min. 99.5 %	Magnesium (Mg)	max. 0.00001 %
Free acid (as CH_3COOH)	max. 0.002 %	Methanol (gc)	max. 0.05 %
Free alkali (as NH_3)	max. 0.001 %	Ethanol	max. 0.01 %
Lead (Pb)	max. 0.000001 %	Aldehyde (as HCHO)	max. 0.001 %
Copper (Cu)	max. 0.000001 %	Substances reducing $KMnO_4$ (as O)	max. 0.00025 %
Nickel (Ni)	max. 0.000005 %	Water	max. 0.2 %
Cobalt (Co)	max. 0.000005 %	Non-volatile substances	max. 0.001 %
Iron (Fe)	max. 0.00001 %		
Manganese (Mn)	max. 0.000001 %		
Zinc Zn)	max. 0.000001 %		

1 l	8.75	6x	7.60	15x	7.20	90x	6.85
2,5 l	18.–	4x	15.70	16x	14.75	96x	14.05
20 kg kg	5.50	6x	5.25				
		12x	5.–				

10160 Acetone for fluorometry Uvasol® 3.1
CH_3COCH_3 MW 58.08
1 l = 0.79 kg

Certificate of Guarantee:

Assay (gc)	min. 99.7 %	Non-volatile substances	max. 0.0005 %
Water	max. 0.1 %		

Fluorescence corresp. to max. 2.10^{-7} g quinine in 100 ml 0.1 N H_2SO_4

Suitability for UV spectroscopy
Guaranteed transmittances (1-cm cell; reference : water)

Wavelength (nm)	330	335	340	345	350
Transmittance (%)	15	60	85	95	98

1 l	21.–	6x	18.70	24x	17.60	144x	16.60

22 Acetone for spectroscopy Uvasol® 3.1
CH_3COCH_3 MW 58.08
1 l = 0.79 kg

Certificate of Guarantee:

Assay (gc)	min. 99.7 %	Non-volatile substances	max. 0.0005 %
Water	max. 0.1 %		

Suitability for UV spectroscopy
Guaranteed transmittances (1-cm cell; reference: water)

Wavelength (nm)	330	335	340	345	from 350
Transmittance (%)	15	60	85	95	98

Suitability for IR spectroscopy passes test

500 ml	9.75	6x	8.70	24x	8.20	144x	7.70
2,5 l	29.75	4x	26.50	16x	25.–	96x	23.50

20 Acetone for chromatography LiChrosolv® 3.1
CH_3COCH_3 MW 58.08
1 l = 0.79 kg

Certificate of Guarantee:

Assay (gc)	min. 99.7 %	Water	max. 0.1 %
Free acid (as CH_3COOH)	max. 0.002 %	Non-volatile substances	max. 0.001 %
d 20°/4°	0.790–0.793		

Guaranteed transmittances for UV detection (1-cm cell, reference: water)

Transmittance (%)	20	80	98
Wavelength (nm)	340	350	from 360

1 l	10.25	6x	9.10	24x	8.60	144x	8.10
2,5 l	21.25	4x	18.90	16x	17.90	96x	16.80

822251 Acetone for synthesis 3.1
see part 2

EVO/C

27 Acetone MOS Selectipur® 3.1
ASTM dust class 0
CH_3COCH_3 MW 58.08 1 l = 0.79 kg

2,5 l Prices on application

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24 Acetone Selectipur® 3.1
CH_3COCH_3 MW 58.08 1 l = 0.79 kg

2,5 l Prices

20 kg on application

---

13 Acetone extra pure BPC 1973, NF XIV, Ph Franc IX 3.1
CH_3COCH_3 MW 58.08 1 l = 0.79 kg

1 l	8.50	6x	7.40	15x	6.95	90x	6.65
2,5 l	17.–	4x	14.80	16x	13.95	96x	13.25
45 kg	kg 3.80	6x	3.60				
		12x	3.50				
		24x	3.40				

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19 + Acetone-d_6 deuteration degree 3.1
not less than 99% for NMR spectroscopy Uvasol®
CD_3COCD_3 MW 64.12 1 l = 0.88 kg

1 ml	7.50	6x	5.–	24x	4.70	144x	4.40
10 ml	25.–	6x	22.30	24x	21.–	144x	19.80
100 ml	200.–	6x	178.–	24x	168.–	144x	158.–

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21 Acetone-d_6 deuteration degree not less than 99.8 % 3.1
for NMR spectroscopy Uvasol®
CD_3COCD_3 MW 64.12 1 l = 0.88 kg

1 ml	7.50	6x	5.25	24x	4.95	144x	4.65
10 ml	32.–	6x	28.50	24x	26.90	144x	25.30
100 ml	270.–	6x	240.25	24x	226.75	144x	213.25

11969 Acetone-d_6 deuteration degree not less than 99.95 % 3.1
for NMR spectroscopy Uvasol®
CD_3COCD_3 MW 64.12 1 l = 0.88 kg

1 ml	27.–	6x	24.–	24x	22.70	144x	21.30
10 ml	180.–	6x	160.25	24x	151.25	144x	142.25

Acetone chloroform see 1,1,1-Trichloro-2-methyl-2-propanol

Acetonedicarboxylic acid see 3-Oxoglutaric acid, part 2

Acetone diethyl acetal see 2,2-Diethoxypropane, part 2

Acetone dimethyl acetal see 2,2-Dimethoxypropane, part 2

Acetonenol acetate see iso-Propenyl acetate, part 2

821924 Acetone oxime for synthesis
see part 2

EVO/C

17 Acetonitrile for residue analysis 6.1
CH_3CN MW 41.05 1 l = 0.78 kg

Certificate of Guarantee:

Assay (gc)	min. 99.8 %	Non-volatile	
Water	max. 0.05 %	substances	max. 0.000 5 %

Suitability for pesticide residue analysis: When using an ECD none of the interfering signals on the gas chromatogram is greater than the signal obtained with 5 ng/l each of lindane and DDT.

1 l	26.50	6x	23.60	24x	22.30	144x	20.90

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3 Acetonitrile GR 6.1
CH_3CN MW 41.05 1 l = 0.78 kg

Certificate of Guarantee:

Assay (gc)	min. 99.5 %	Substances discoloured by H_2SO_4	passes test
Free acid (as CH_3COOH)	max. 0.001 %	Water	max. 0.1 %
Chloride (Cl)	max. 0.000 1 %	Non volatile substances	max. 0.000 5 %

1 l	21.50	6x	19.10	24x	18.10	144x	17.–

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16 Acetonitrile for spectroscopy Uvasol® 6.1
CH_3CN MW 41.05 1 l = 0.78 kg

Certificate of Guarantee:

Assay (gc)	min. 99.7 %	Non-volatile	
Water	max. 0.03 %	substances	max. 0.0005 %

Suitability for UV spectroscopy
Guaranteed transmittances (1-cm cell; reference: water)

Wavelength (nm)	200	210	220		230	250	280	from 300	
Transmittance (%)	50	70	80		90	95	97		98

Suitability for IR spectroscopy passes test

250 ml	20.75	6x	18.50	24x	17.40	144x	16.40
1 l	72.–	6x	64.–	24x	60.50	144x	57.–

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30 Acetonitrile for chromatography LiChrosolv® 6.1
CH_3CN MW 41.05 1 l = 0.78 kg

Certificate of Guarantee:

Assay (gc)	min. 99.7 %	Water	max. 0.1 %
Free acid (as CH_3COOH)	max. 0.001 %	Non-volatile substances	max. 0.001 %
d 20°/4°	0.782–0.793		

Guaranteed transmittances for UV detection (1-cm cell, reference: water)

Transmittance (%)	20	80	98	
Wavelength (nm)	195	220	from 300	

1 l	67.–	6x	59.75	24x	56.25	144x	53.–

800015 Acetonitrile for synthesis 6.1
see part 2

2904 + Acetonitrile-d_3 deuteration degree not less than 99% for NMR spectroscopy Uvasol® 6.1
CD_3CN MW 44.07 1 l = 0.84 kg

1 ml	8.25	6x	7.35	24x	6.95	144x	6.50
10 ml	51.–	6x	45.40	24x	42.80	144x	40.30
50 ml	187.–	6x	166.50	24x	157.–	144x	147.75

Acetonylacetone see 2,5-Hexanedione, part 2

Acetophenetidine see Phenacetin

800028 Acetophenone for synthesis
see part 2

p-Acetotoluidine see 4'-Methylacetanilide, part 2

Acetoxybenzoic acid see Acetylsalicylic acid

2-Acetoxybenzoyl chloride see Acetylsalicyloyl chloride, part 2

Acetoxytributyltin see Tributyltin acetate, part 2

EVO/C

Acetoxytriphenyltin see Triphenyltin acetate, part 2

Acetphenolisatin see Diacetyldiphenolisatin

Acet-p-toluidide see 4'-Methylacetanilide, part 2

9600 Acetylacetone GR 3.3

$C_5H_8O_2$ MW 100.12 1 l = 0.97 kg

Certificate of Guarantee:

Assay (gc)	min. 99.5 %	Water	max. 0.05 %
Ethyl acetate (gc)	max. 0.01 %	Non-volatile substances	max. 0.005 %

100 ml	**8.50**	6x	**7.55**	24x	**7.15**	144x	**6.70**
500 ml	**27.–**	6x	**24.–**	24x	**22.70**	144x	**21.30**

800023 Acetylacetone for synthesis 3.3

see part 2

4-Acetylaminoaniline see 4'-Aminoacetanilide, part 2

4-(Acetylamino)phenol see 4'-Hydroxyacetanilide, part 2

4-Acetylaminotoluene see 4'-Methylacetanilide, part 2

821925 2-Acetylbenzoic acid for synthesis

see part 2

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39 Acetyl bromide for humus test 8.0

CH_3COBr MW 122.95 1 l = 1.64 kg

Certificate of Guarantee:

Assay (argentometric)	min. 99 %	Phosphate (PO_4)	max. 0.0005 %
d 20°/4°	1.649–1.650	Non-volatile substances	max. 0.01 %
Sulfate (SO_4)	max. 0.0005 %		

100 ml	**35.50**	6x	**31.60**	24x	**29.80**	144x	**28.10**

821926 Acetyl bromide for synthesis 8.0

see part 2

N-Acetyl-p-bromoaniline see 4'-Bromoacetanilide, part 2

2-Acetyl-4-butanolide see 2-Acetyl-γ-butyrolactone, part 2

800110 2-Acetyl-γ-butyrolactone for synthesis

see part 2

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31 Acetyl chloride GR 8.0

CH_3COCl MW 78.50 1 l = 1.10 kg

Certificate of Guarantee:

Assay (argentometric)	min. 99 %	Heavy metals (als Pb)	max. 0.00001 %
Non-volatile substances	max. 0.001 %	Iron (Fe)	max. 0.00001 %

250 ml	**16.–**	6x	**14.25**	24x	**13.45**	144x	**12.65**

822252 Acetyl chloride for synthesis 8.0

see part 2

821264 Acetylcholine perchlorate for synthesis 5.1

see part 2

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32 + Acetylcholinium chloride JP VIII, Ph Franc IX

$C_7H_{16}ClNO_2$ MW 181.66

100 g	**21.75**	6x	**19.40**	24x	**18.30**	144x	**17.20**
1 kg	**164.–**	6x	**146.–**	24x	**137.75**	144x	**129.50**

EVO.C

12422 *N*-**Acetyl-***L*-**cystein** for biochemistry

$C_5H_9NO_3S$ MW 163.19

25 g	**17.–**	6x	**15.10**	24x	**14.30**	144x	**13.45**
100 g	**59.–**	6x	**52.50**	24x	**49.60**	144x	**46.60**

3048 † Acetyldigitoxin cryst. NF XIII 6.1

$C_{43}H_{66}O_{14}$ MW 807.00

5 g ⊙ Prices on application

10271 † β-Acetyldigoxin 6.1

$C_{43}H_{66}O_{15}$ MW 822.99

5 g Prices on application

2-Acetyl-3,4-dihydro-6-methyl-2H-pyran-2,4-dione see Dehydroacetic acid, part 2

823201 Acetylene 2.0

see part 2

821043 Acetylenecarbaldehyde for synthesis 3.1

see part 2

821044 Acetylenecarboxylic acid for synthesis 8.0

see part 2

800147 Acetylenedicarboxylic acid for synthesis

see part 2

820009 Acetylenedicarboxylic acid monopotassium salt for synthesis

see part 2

Acetylene tetrabromide see 1,1,2,2-Tetrabromoethane

Acetylene tetrachloride see 1,1,2,2-Tetrachloroethane, part 2

2-Acetylfuran see 2-Furyl methyl ketone, part 2

Acetylhydrazine see Acetohydrazide, part 2

2-Acetyl-4-hydroxybutyric acid lactone see 2-Acetyl-γ-butyrolactone, part 2

3-Acetylindole see 3-Indolyl methyl ketone, part 2

500984 Acetyl-DL-methionine pure

$C_7H_{13}NO_3S$ MW 191.25

Type Analysis:

Assay (acidimetric)	99 %	Heavy metals (as Pb)	0.001 %
Melting range	113–117° C	Ammonium (NH_4)	0.0005 %
Specific rotation ([α] 20°/D; c = 5, 1N HCl)	0°	Water	0.5 %

5 kg Prices

50 kg on application

Acetylmethylamine see N-Methylacetamide

818086 Acetylmethylenetriphenylphosphorane for synthesis

see part 2

820005 1-Acetylnaphthalene

see part 2

820006 2-Acetylnaphthalene for synthesis

see part 2

EVO/C

24800 N-Acetylneuramic acid for biochemistry
$C_{11}H_{19}NO_9$ MW 309.28
Store in a refrigerator (+4° C)

50 mg	58.50	6x	52.–	24x	49.10	144x	46.20

3-Acetylpropionic acid see Levulinic acid

Acetylpyridine see Methylpyridyl ketone, part 2

2-Acetylresorcinol see 2',6'-Dihydroxyacetophenone, part 2

4-Acetylresorcinol see 2',4'-Dihydroxyacetophenone, part 2

85 Acetylsalicylic acid Ph Eur, BP 1973, JP VIII, Ph Franc IX, Ph Nord 1963, USP XIX
$C_9H_8O_4$ MW 180.16

1 kg	18.–	6x	16.–	24x	15.10	144x	14.20
50 kg	kg 10.–						

821928 Acetylsalicyloyl chloride for synthesis 8.0
see part 2

3-Acetyltetrahydro-2-furanone see 2-Acetyl-γ-butyrolactone, part 2

12002 S-Acetylthiocholine iodide for biochemistry
$C_7H_{16}INOS$ MW 289.18
Keep cool
Type Analysis:
Assay (ex I) 99 % Melting range 205–210° C

1 g	9.25	6x	8.25	24x	7.75	144x	7.30
5 g	31.50	6x	28.–	24x	26.50	144x	24.90

2-Acetylthiophene see Methyl 2-thienyl ketone, part 2

12423 N^{α}-Acetyl-DL-tryptophan for biochemistry
$C_{13}H_{14}N_2O_3$ MW 246.27
Type Analysis:
Assay (acidimetric) 99 % Ammonium (NH_4) 0.001 %
Heavy metals (as Pb) 0.001 %

25 g	23.50	6x	20.90	24x	19.70	144x	18.60

83 *N*-**Acetyl-L-tyrosine ethyl ester** (ATEE) (monohydrate) for biochemistry
$C_{13}H_{17}NO_4 \cdot H_2O$ MW 269.28
Type Analysis:
Assay (gc) 99 %
Suitability as substrate for chymotrypsin passes test
Melting range 79–83° C
Specific rotation [α] 20°/D; (c = 1; absolute ethanol; calc. for anhydrous substance) +23° to +24°
Absorptivity (A 1%/1 cm λ = 226 nm absolute ethanol; calc. for anhydrous substance) 385–400
Water 6–7 %

5 g	26.50	6x	23.60	24x	22.30	144x	20.90

98 ○ *N*-**Acetyl-L-tyrosine-4-nitroanilide** for biochemistry
$C_{17}H_{17}N_3O_5$ MW 343.34
Store in a refrigerator (+4° C)

1 g	66.–	6x	58.75	24x	55.50	144x	52.25

EVO/C

Acilit® see Special indicator

820010 † **Acridan** for synthesis
see part 2

821655 Acridine for synthesis
see part 2

Acridine hydrochloride see Acridinium chloride, part 2

1333 Acridine orange (C.I. No. 46 005, S. No. 902) for microscopy
$C_{17}H_{20}Cl_3N_3Zn$ MW 438.10

25 g	23.–	6x	20.50	24x	19.30	144x	18.20

820011 Acridinium chloride for synthesis
see part 2

12425 Acrolein for electron microscopy 3.1
stabilised with 0.2% hydroquinone
C_3H_4O MW 56.06 1 l = 0.84 kg
Type Analysis:
Assay (gc) 99 % d 20°/4° 0.843–0.845

1 l	34.–	6x	30.30	24x	28.60	144x	26.90

800178 Acrolein for synthesis 3.1
stabilised with 0.2% hydroquinone
see part 2

10784 Acrylamide for disc electrophoresis 6.1
C_3H_5NO MW 71.08

100 g	23.50	6x	20.90	24x	19.70	144x	18.60

800830 Acrylamide for synthesis 6.1
see part 2

800181 ○ **Acrylic acid** for synthesis 8.0
stabilised with 200 ppm hydroquinone monomethyl ether
see part 2

800834 Acrylonitrile for synthesis 3.1
stabilised with 40 ppm hydroquinone monomethyl ether
see part 2

800826 Acryloyl chloride for synthesis 8.0
stabilised with 0.1% CuCl
see part 2

1-Adamantanamine hydrochloride see 1-Adamantaneammonium chloride, part 2

820013 Adamantane for synthesis
see part 2

820015 1-Adamantaneammonium chloride for synthesis
see part 2

821657 1-Adamantanecarbonitrile for synthesis 6.1
see part 2

821269 Adamantane-1-carbonyl chloride for synthesis 8.0
see part 2

801337 1-Adamantanecarboxylic acid for synthesis
see part 2

801339 1-Adamantanol for synthesis
see part 2

1-Adamantylamine hydrochloride see 1-Adamantaneammonium chloride, part 2

EVO/C

838 Adenine for biochemistry

$C_5H_5N_5$ MW 135.13

Type Analysis:
Assay (spectrophotometric) 98 %
Heavy metals (as Pb) 0.001 %

5 g	11.25	6x	10.–	24x	9.45	144x	8.90
25 g	42.–	6x	37.40	24x	35.30	144x	33.20

Adenine 9-D-ribofuranoside see Adenosine

862 Adenosine for biochemistry

$C_{10}H_{13}N_5O_4$ MW 267.25

Type Analysis:
Assay (259 nm/pH 7) 98 % (on dried substance)
Absorbance ratios A 250 : A 260 = 0.78 ± 0.02
A 280 : A 260 = 0.15 ± 0.01
A 290 : A 260 = max. 0.01
Specific rotation ([α] 20°/D, c = 2.5, 1 N HCl) –45 to –49°
Water 1 %
Sulfated ash 0.1 %
Heavy metals (as Pb) 0.001 %

5 g	11.–	6x	9.80	24x	9.25	144x	8.70
25 g	40.50	6x	36.10	24x	34.–	144x	32.–

24801 Adenosine-3',5'-cyclophosphoric acid for biochemistry

$C_{10}H_{12}N_5O_6P$ MW 329.21

Store in a refrigerator (+4° C).

100 mg	19.75	6x	17.60	24x	16.60	144x	15.60

24512 Adenosine-5'-diphosphoric acid trisodium salt ($ADPNa_3$, Ado-5'-P-PNa_3) for biochemistry

$C_{10}H_{12}N_5Na_3O_{10}P_2$ MW 493.15

Store in a refrigerator (below 0°)

Type Analysis:
Assay (spectrophotometric, on anhydrous substance) 98 %
Water 10 %

500 mg	23.–	6x	20.50	24x	19.30	144x	18.20

Adenosine-3',5'-monophosphate, cyclic see Adenosine-3',5'-cyclophosphoric acid

1428 Adenosine-5'-monophosphoric acid disodium salt (Ado-5'-PNa_2) for biochemistry

$C_{10}H_{12}N_5Na_2O_7P$ MW 391.19

Store in a refrigerator (+ 4° C).

Type Analysis:
Assay (spectrophotometric, on anhydrous substance) 98 %
Specific rotation ([α] 20°/D, c = 1, water, on anhydrous substance) –42° to –47°
Heavy metals (as Fb) 0.001 %
Water 10 %

5 g	19.25	6x	17.10	24x	16.20	144x	15.20

1432 Adenosine-5'-triphosphoric acid disodium salt ($ATPNa_2$, Ado-5'-P-P-PNa_2) for biochemistry

$C_{10}H_{14}N_5Na_2O_{13}P_3$ MW 551.15

Store in a refrigerator (below 0° C).

Type Analysis:
Assay (spectrophotometric, on anhydrous substance) 98 %
pH (1% solution) 2,5–3,5
Specific rotation ([α] 20°/D, c = 1, water, on anhydrous substance) –20° to –28°
Heavy metals (as Pb) 0.001 %
Water 10 %

1 g	7.50	6x	6.–	24x	5.65	144x	5.35
5 g	15.75	6x	14.–	24x	13.25	144x	12.45

EVO/C

Adermine hydrochloride see Pyridoxol hydrochloride

Adermine phosphate see Pyridoxol phosphate

6747 + Adhesive tape for thin-layer chromatography (for peeling of thin-layer chromatograms with Neatan®)
(roll 19 cm wide 25 m long)

1 Pack	36.50

800087 Adipamide for synthesis
see part 2

90 Adipic acid extra pure

$C_6H_{10}O_4$ MW 146.14

Type Analysis:
Assay (acidimetric, on anhydrous substance) 99 %
Melting range 150–153° C
Water 0.5 %

1 kg	11.25	6x	10.–	24x	9.45	144x	8.90
50 kg	kg 5.30	6x	4.90				

800092 Adiponitrile for synthesis 6.1
see part 2

800089 Adipoyl dichloride for synthesis 8.0
see part 2

Adonite see Adonitol

852 Adonitol (ribitol) for biochemistry

$C_5H_{12}O_5$ MW 152.15

1 g	11.–	6x	9.80	24x	9.25	144x	8.70

846 Adonitol (ribitol) for microbiology

$C_5H_{12}O_5$ MW 152.15

5 g	31.50	6x	28.–	24x	26.50	144x	24.90

847 + l-Adrenaline cryst. DAB 7, BP 1973, USP XIX 6.1

$C_9H_{13}NO_3$ MW 183.21

1 g	8.50	6x	7.55	24x	7.15	144x	6.70
10 g	19.75	6x	17.60	24x	16.60	144x	15.60
100 g	152.–	6x	135.25	24x	127.75	144x	120.–

Ae. . . see E. . .

Aethoform see Ethyl 4-aminobenzoate

1613 Agar-Agar ultrapure for microbiology

100 g	29.25	6x	26.–	24x	24.60	144x	23.10
1 kg	242.–	6x	215.50	24x	203.25	144x	191.25