

THE
MERCK
INDEX
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TWELFTH EDITION

THE MERCCK INDEX

AN ENCYCLOPEDIA OF
CHEMICALS, DRUGS, AND BIOLOGICALS

TWELFTH EDITION

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Abbreviations and Selected Definitions

Please consult the Glossary (Misc. Tables Section) for additional definitions.

A	adenine; adenosine; absorbance (extinction)	A.S.T.M.	American Society for Testing Materials
Å	Angstrom units	as-, asym-	asymmetrical, unsymmetrical
AAT	α_1 -antitrypsin	at.	atomic
Ab	antibody	ATCC	American Type Culture Collection
abs	absolute; absorption	atm, atmos	atmosphere(s), atmospheric
abs config	absolute configuration	at. no.	atomic number
abstr	abstract	ATP	adenosine triphosphate
Abu	α -aminobutyric acid	ATPase	adenosine triphosphatase
Ac	acetyl CH_3CO —	at. wt.	atomic weight
acc	according	BAN	British Approved Name
ACE	angiotensin converting enzyme	B cell	bone marrow or bursa of Fabricius derived cell
Acetyl CoA	acetyl coenzyme A	BCG	Bacillus Calmette-Guerin
Ac ₂ O	acetic anhydride	Bé	Baumé (a specific gravity scale)
AcOEt	ethyl acetate	Beilstein	Beilstein's <i>Handbuch der Organischen Chemie</i>
AcOH	acetic acid	Belg. pat.	Belgian patent
ACP	acyl carrier protein	Ber.	<i>Chemische Berichte</i> (Berichte der Deutschen Chemischen Gesellschaft)
A.C.S.	American Chemical Society	BGG	bovine gamma globulin
ACTH	adrenocorticotropic hormone	biol	biological
AcylSCoA	acyl coenzyme A	B.I.O.S.	British Intelligence Objectives Subcommittee
ADCC	antibody-dependent cellular cytotoxicity	BOC	<i>tert</i> -butoxycarbonyl
add(n)	adding, addition	B.O.D.	biochemical oxygen demand
Ade	adenine	boil.	boiling
ADH	alcohol dehydrogenase	bp	basepair; boiling point; boils at; boiling at Example: bp ₇₀ 48° means boils at 48°C if the pressure is 70 mm Hg
ADP	adenosine diphosphate	B.P.	<i>British Pharmacopeia</i>
AEC	(United States) Atomic Energy Commission	B.P.C.	<i>British Pharmaceutical Codex</i>
Ag	antigen, silver	Brit. pat.	British patent
AI	anaphylotoxin inhibitor	BRM	biological response modifier
AIDS	acquired immunodeficiency syndrome	BSA	bovine serum albumin
Ala	alanine	Btu	British thermal units
alc, alcohol	alcohol(ic); ethanol; ethyl alcohol	Bu	butyl
ALG	anti-lymphocyte globulin	Bz	benzoyl $\text{C}_6\text{H}_5\text{CO}$ —
alk	alkali(ne)	BzH	benzaldehyde
$[\alpha]_D^{25}$	specific optical rotation at 25° C for D (sodium) line; absence of brackets indicates optical rotation of a liquid in a 1 decimeter cell, neat	BzOH	benzoic acid
ALS	anti-lymphocyte serum, amyotrophic lateral sclerosis	c	concentration by volume (g/100ml) after optical rotations only
a_M	molar absorptivity (concn in g-moles/l)	C	cytosine; cytidine; complement
amorph	amorphous	°C	Centigrade degrees; Celsius degrees
AMP	adenosine 5'-monophosphate (adenylic acid)	C_p	heat capacity (constant pressure)
cAMP	cyclic AMP	ca.	(circa) about
amps	ampules	C.A.	<i>Chemical Abstracts</i>
amt(s)	amount(s)	cal	calorie(s)
ANF	anti-nuclear factor; atrial natriuretic factor	calc(d)	calculate, calculated
anhydr	anhydrous	Can. pat	Canadian patent
anti	stereodescriptor, <i>see Glossary</i>	Cbz	carbobenzoxy
Ann.	<i>Justus Liebig's Annalen der Chemie</i>	cbc	complete blood count
APhA	American Pharmaceutical Association	cc	cubic centimeter(s) (milliliter)
approx	approximate(ly)	CCK	cholecystokinin
APT	alum precipitated toxoid	CD	circular dichroism
aq	aqueous	CDP	cytidine diphosphate
Ar	aryl	CEA	carcinoembryonic antigen
A.R.	analytical reagent	cf.	(confer) compare
ARC	AIDS related complex	CFA	complete Freund's adjuvant (same as FCA)
Archiv Exp. Pathol. Pharmakol.	<i>Naunyn Schmiedebergs Archiv für Experimentelle Pathologie und Pharmakologie</i>	CFT	complement fixation test
ArCO-	aromatic acyl radical	CHD	coronary heart disease
Arg	arginine	CHF	congestive heart failure
Asa	β -carboxyaspartic acid	chem	chemical
Asn	asparagine	Chem. Commun.	<i>Journal of the Chemical Society, Chemical Communications.</i>
Asp	aspartic acid	Ci	curie
assoc(d)	association; associated	C.I.	Colour Index (British)
		cis-	stereodescriptor, <i>see Glossary</i>
		cm	centimeter(s)

CM-cellulose
CMI
CML
CMP

CNS
CoA or CoASH
coll. vol.
compd
compn
Con A
conc(d)
concn
confg
constit
contd
contg
CoQ
cor(r)
corresp
cp
C.P.
cpd
crit press
crit temp
cryst
crystn
CSF

CTFA

CTP
Cys
Cyt
d

d-
D-

Da
DEAE cellulose
dec, decomp
decompn
deg
deliquesc
Δ (delta)

deriv
determn
DFP, DIFP, DIPP

Dha
Dhb

diff
dil(d), (n)
distln
dl-
DL-

dm
DMA
DMARD
DMF
DMSO
DNA
cDNA
mtDNA
DNAase
DNFB
DNP

Dopa
dp, DP

O-(carboxymethyl) cellulose
cell-mediated immunity
cell-mediated lymphocytotoxicity
cytidine 5'-monophosphate (cytidylic acid)
central nervous system
coenzyme A
collective volume
compound
composition
concanavalin A
concentrated
concentration
configuration
constituent
continued
containing
coenzyme Q (ubiquinone)
corrected
corresponding, corresponds
centipoise
chemically pure
compound
critical pressure
critical temperature
crystalline, crystals
crystallization
colony stimulating factor; cerebral spinal fluid
Cosmetic, Toiletory and Fragrance Assoc.
cytidine triphosphate
cysteine
cytosine
density; specific gravity (d₄¹⁹ specific gravity at 19° referred to water at 4°)
dextro (rotatory), the opposite of *l dextro* (in configurational sense only), the opposite of *L*
daltons
O-(diethylaminoethyl)cellulose
decompose(s), decomposition
decomposition
degree
deliquescent
indicates the locant of the double bond
derivative
determination
diisopropyl fluorophosphate or diisopropyl phosphofluoridate
dihydroalanine
dehydrobutyrine, β-methyldehydroalanine
difference
dilute, diluted, dilution
distillation
racemic
optically inactive by external compensation as contrasted with *meso-*
decimeter(s)
dimethylacetamide
disease modifying antirheumatic drug
dimethylformamide
dimethylsulfoxide
deoxyribonucleic acid
complementary DNA
mitochondrial DNA
deoxyribonuclease
2,4-dinitro-1-fluorobenzene
2,4-dinitrophenyl or 2,4-dinitrophenol
dihydroxyphenylalanine
degree of polymerization (number of monomeric units in the polymer)

D.R.P.

ds
DTT
dyn
(E)-
E_{1cm}^{1%}
E_M
EAA
EAC
EAE
EC
ECF-A
ECG
E.C. No.
ed.
ED
Ed(s).
EDTA
EEG
e.g.
EGF
eidem
EINECS
EKG
ELISA
emf
en
endo-
EPA
EPO
ε (epsilon)
eq
equilib
equiv
esp
esu
Et
η (eta)
et al.
etc.
Et₂O
EtOH
Eur. pat. Appl.
ev
evac
evapn
exo-
expt(ly)
ext(d)
extern
°F
F-1-P
F-6-P
FA
FAB
FAD (FADH₂)
FCA
Fd
F.D.A.
FD & C

(*Deutsches Reichs-Patent*)—German patent
double stranded
dithiothreitol
dynes
entgegen, stereodescriptor, *see Glossary*
the absorbance of a solution containing one gram per 100 ml contained in a cell having an absorption path of one cm
molar extinction coefficient (concn in g-moles/l)
excitatory amino acid
erythrocyte coated by antibody and complement
experimental allergic encephalomyelitis
electron capture
eosinophil chemotactic factor of anaphylaxis
electrocardiogram
Enzyme Commission Number
edition
effective dose
editor(s)
ethylenediaminetetraacetic acid
electroencephalogram (*exempli gratia*) for example
epidermal growth factor
the same (authors), plural of *idem*
European Inventory of Existing Chemical Substances
electrocardiogram
enzyme-linked immunosorbent assay
electromotive force
ethylenediamine (in formulas)
stereochemical descriptor, *see Glossary*
Environmental Protection Agency
erythropoietin; European Patent Office
molar extinction coefficient (concn in g-moles/l); dielectric constant
equation
equilibrium
equivalent
especially
electrostatic units of electrical charge
ethyl C₂H₅—
viscosity
(*et alii*) and others
et cetera
ether
ethyl alcohol
European patent application
electron volt
evacuated
evaporation
stereochemical descriptor, *see Glossary*
experimental(ly)
extract, extracted
externally
Fahrenheit degrees; also Fourneau
fructose 1-phosphate
fructose 6-phosphate
fatty acid
fast atom bombardment
flavin adenine dinucleotide (reduced form)
Freund's complete adjuvant (same as CFA)
ferredoxin
Food and Drug Administration (U.S.A.)
Food, Drug and Cosmetic (U.S.A.)

FDNB
FDP
ff
FFA
FFC
FIA
FIAT
FMN (FMNH₂)
Fmoc
Fortschr. Chem. Org. Naturst.
fp
FP
FPLC
Fr. pat.
Frdl.
Fru
FSH
FT
g
G
G-1-P
G-3-P
G-6-P
GABA
gal
Gal
GalNAc
γ (gamma)
GC
GDH
GDP
gem-
geol
Ger. pat.
GH
GI
g/l
Gla
Glc
GLC
GlcA
GlcN
GlcNAc
GlcUA
Gln
Glu
GluA
Gly
Glycerol-3-P
Gmelin's
GMP
cGMP
GM-CSF
gov't
GP
GRF, GHRF
GSH
GSSG
GTP
GU
Gua

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