

DYNACAL PERMEATION DEVICES

Chemical Material / Permeant Gas	Formula	Gas Designation (last 4 digits of part number)	Price Code	Chemical Material / Permeant Gas	Formula	Gas Designation (last 4 digits of part number)	Price Code
Acetaldehyde	CH ₃ CHO	2301	D	Heptane-N	C ₇ H ₁₆	0511	D
Acetic Acid	CH ₃ COOH	2851	D	Hexane-N	C ₆ H ₁₄	0507	D
Acetone	CH ₃ COCH ₃	2500	D	Hydrazine	NH ₂ NH ₂ ● H ₂ O	0141	F
Acetonitrile	CH ₃ CN	5301	E	Hydrochloric acid (20.2%)	HCl acid (20.2%)	0161	D
Acrylonitrile	CH ₂ CHCN	5340	E	Hydrogen Chloride	HCl	0050	F
Ammonia	NH ₃	0140	E	Hydrogen Cyanide	HCN	5300	Q *
Benzaldehyde	C ₆ H ₅ CHO	2400	D	Hydrogen Fluoride	HF	0040	G *
Benzene	C ₆ H ₆	1400	D	Hydrogen Sulfide	H ₂ S	0110	E *
Bromine	Br ₂	0003	F	Iodine	I ₂	0004	D
Butane	C ₄ H ₁₀	0503	E	Isobutylene	(CH ₃) ₂ CCH ₂	0703	E
Butanol	C ₄ H ₉ OH	2004	D	Isopropyl Alcohol	(CH ₃) ₂ CHOH	2003	A
Butene-1	C ₄ H ₈	0701	E	Isopropyl Benzene	(CH ₃) ₂ CHC ₆ H ₅	1414	D
Butyl Acetate	CH ₃ COOC ₄ H ₉	3104	D	Isopropyl Mercaptan	(CH ₃) ₂ CHSH	6003	F
Butyl Mercaptan-N	C ₄ H ₉ SH	6004	F	Mercury	Hg	0030	E
Butyl Mercaptan-Tert	C ₄ H ₉ SH	6007	F	Methanol	CH ₃ OH	2000	C
Carbon Disulfide	CS ₂	6300	E *	Methyl Acetate	CH ₃ CO ₂ CH ₃	3100	D
Carbon Tetrachloride	CCl ₄	4203	D	Methyl Amine	CH ₃ NH ₂	5000	E
Carbonyl Sulfide	COS	7600	F	Methyl Bromide	CH ₃ Br	4500	E
Chlorine	Cl ₂	0002	E *	Methyl Ethyl Ketone	CH ₃ COC ₂ H ₅	2501	D
Chlorobenzene	C ₆ H ₅ Cl	4400	D	Methyl Ethyl Sulfide	CH ₃ SC ₂ H ₅	6201	E
Chloroethane	C ₂ H ₅ Cl	4204	E	Methyl Iodide	CH ₃ I	4600	E
Chloroform	CHCl ₃	4202	D	Methyl Isocyanate	CH ₃ NCO	7473	G
Chloromethane	CH ₃ Cl	4200	E	Methyl Isopropyl Sulfide	CH ₃ SCH(CH ₃) ₂	6204	E
Chlorotoluene (O)	CH ₃ C ₆ H ₄ Cl	4413	D	Methyl Mercaptan	CH ₃ SH	6000	F
Cyclohexane	C ₆ H ₁₂	1003	D	Naphthalene	C ₁₀ H ₈	1700	D
Cyclopropane	CH ₂ CH ₂ CH ₂	1000	E	Nitric Acid	HNO ₃ (68%)	0160	E *
Decane	C ₁₀ H ₂₂	0571	D	Nitrobenzene	C ₆ H ₅ NO ₂	7450	E
Dichlorobenzene (P)	C ₆ H ₄ Cl ₂	4403	D	Nitrogen Dioxide	NO ₂	0081	C *
Dichloroethane 1 - 1	Cl ₂ CHCH ₃	4205	D	Nonane-N	C ₉ H ₂₀	0538	D
Dichloroethane 1 - 2	ClCH ₂ CH ₂ Cl	4206	D	Octane-N	C ₈ H ₁₈	0520	D
Dichloromethane	CH ₂ Cl ₂	4201	E	Octanethiol-N	C ₈ H ₁₇ SH	6035	F
Diethyl Disulfide	(C ₂ H ₅) ₂ S ₂	6302	E	Pentane-N	C ₅ H ₁₂	0505	D
Diethyl Sulfide	(C ₂ H ₅) ₂ S	6202	E	Phenol	C ₆ H ₅ OH	2250	D
Dimethyl Amine	(CH ₃) ₂ NH	5050	E	Phosgene	COCl ₂	7301	G *
Dimethyl Disulfide	(CH ₃) ₂ S ₂	6301	E	Propane	C ₃ H ₈	0502	E
Dimethyl Ether	CH ₃ OCH ₃	2750	E	Propyl Mercaptan-N	C ₃ H ₇ SH	6002	F
Dimethyl Mercury	Hg(CH ₃) ₂	0330	Q	Propylene	C ₃ H ₆	0700	E
Dimethyl Sulfide	(CH ₃) ₂ S	6200	E	Propylene Oxide	C ₃ H ₆ O	3501	E
Dimethyl Sulfoxide	(CH ₃) ₂ SO	7610	D	Pyridine	C ₅ H ₅ N	5703	D
Dinitrotoluene 2 - 4	C ₇ H ₆ (NO ₂) ₂	7464	D	Pyrrrole	C ₄ H ₅ N	5700	D
Dipropyl Sulfide	(C ₃ H ₇) ₂ S	6210	E	Sulfur Dioxide	SO ₂	0082	B
Epichlorohydrin	C ₃ H ₅ OCI	7340	E	Sulfur Hexafluoride	SF ₆	0045	F
Ethanol	C ₂ H ₅ OH	2001	A	Tetrachloroethylene	C ₂ Cl ₄	4304	D
Ethyl Acetate	CH ₃ CO ₂ C ₂ H ₅	3101	D	Thionyl Chloride	SOCl ₂	0180	E
Ethyl Amine	C ₂ H ₅ NH ₂	5001	E	Thiophane	C ₄ H ₄ S	6602	E
Ethyl Benzene	C ₆ H ₅ C ₂ H ₅	1405	D	Toluene	C ₆ H ₅ CH ₃	1401	D
Ethyl Mercaptan	C ₂ H ₅ SH	6001	F	Toluene Diisocyanate 2-4	H ₃ CC ₆ H ₃ (NCO) ₂	7480	F
Ethylene Dibromide	C ₂ H ₄ Br ₂	4505	F	Trichloroethane 1 - 1 - 1	CH ₃ CCl ₃	4207	D
Ethylene Oxide	(CH ₂) ₂ O	3500	E	Trichloroethylene	CHClCCl ₂	4303	D
Formaldehyde	CH ₂ O	2300	D	Trimethylamine	(CH ₃) ₃ N	5100	E
Formic Acid	HCOOH	2850	D	Trioxane	(CH ₂ O) ₃	3520	D
Freon-11	CCl ₃ F	4650	D	Vinyl Acetate	CH ₃ COOC ₂ H ₃	3120	E
Freon-113	C ₂ Cl ₃ F ₃	4658	D	Water	H ₂ O	0080	A
Freon-12	CCl ₂ F ₂	4651	D	Xylene-M	C ₆ H ₄ (CH ₃) ₂	1403	D
Freon-21	CHCl ₂ F	4653	D	Xylene-O	C ₆ H ₄ (CH ₃) ₂	1402	D
Freon-22	CHClF ₂	4654	E	Xylene-P	C ₆ H ₄ (CH ₃) ₂	1404	D

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* Asterisk after price code denotes requirement for special shipping container surcharge.

HRomalytic
ECHnology

ABN 14 643 445 058
Website: www.chromtech.net.au

PTY LTD
PO Box 435, 232 Forest Rd, Boronia, Victoria 3155, Australia
Tel: +61 3 9762 2034 Fax: +61 3 9761 1169 email: sales@chromtech.net.au



DESCRIPTIVE PRICE LIST Aud

(AUSTRALIAN @ Aud=0.74USD)

DYNACAL® PERMEATION DEVICES

PRICES						SIZES	
See reverse side for letter code of chemical.							
Price Code	DEVICE TYPE (second digit in part number)					Type	Sizes Available
	High Emission (0)	Standard (1)	Low Emission (2)	Wafer Device (4)	Extended Life Tube (7)	High Emission Standard Extended Life Low Emission Wafer device "T" or "F"	1 to 20 cm 0.5 to 20 cm 0.3 to 10 cm 1 or 2 cm .03,.04,.05,.06,.09" thk
A	\$ 170	\$ 134	\$ 200	\$ 298	\$ 326		
B	204	164	246	358	388		
C	248	196	296	436	476		
D	270	218	328	476	520		
E	308	250	372	542	298		
F	376	302	454	648	724		
G	502	400	604	858	966		
__*	Shipping container surcharge - \$16 per device					Per line item, i.e. items of the same type, size and permeant gas	

DISCOUNT

Quantity	% Discount
10 - 24	10 %
25 - 49	15 %
50 - 99	20 %
100+	Factory Quote

CERTIFICATION

Number (3rd digit of P/N)	Device	Rate	Accuracy	Certification Price (at 30°C)	Normal Delivery
0	Uncertified	--	--	--	2-5 days
1	Tubular	> 500 ng/min	± 2%	\$ 204	1-3 Weeks
2	Tubular	101-500 ng/min	± 2% or ± 5 ng/min	304	2-6 Weeks
3	Tubular	20-100 ng/min	± 5% or ± 2 ng/min	408	3-8 Weeks
4	Wafer	> 100 ng/min	± 5%	\$ 300	2-6 Weeks
5	Wafer	20-100 ng/min	± 5% or ± 2 ng/min	450	3-8 Weeks
6	Wafer or Tubular	5-19 ng/min	± 10%	598	8-12 Weeks
7	Special certification (add to total price).				
Last letter of P/N	Temperature: 31° to 50°C			\$ 28	
	Temperature: 51° to 110°C			\$ 52	
	Range: Wafer device, rate ± 10%			\$ 122	
	Range: Tube > 2 cm, rate ± 5%			\$ 96	
	Range: Tube < 2 cm, rate ± 5%			\$ 128	
Accuracy: ± 2% or ± 2 ng/min when ± 5% or ± 5 ng/min is normal			\$ 128		

SPECIAL DEVICES

The following letters should be added to the part number if the device is for the listed models.

DEVICE TYPE	2ND DIGIT	MODEL	LETTERS	PRICE
Extended Life Tube (XLT)	8	CSI-MELOY,XLT#2,XLT#3	- ME, -F56, -F59	XLT + \$ 68
Wafer device (WD)	5	CSI-MELOY	-ME	WD + \$ 54
Wafer device (WD)	5	MONITOR LABS 8500	-ML	WD + \$ 68
Wafer device (WD)	5	MONITOR LABS 8850	-MLR	WD + \$ 84
Wafer device (WD)	5	MONITOR LABS (all models)	-MLRA	WD + \$ 106
Wafer device (WD)	5	PHILIPS 9700	-P	WD + \$ 156
Wafer device (WD)	5	Threaded Cap (BECKMAN)	-TH (BK)	WD + \$ 156
Wafer device (WD)	5	Specials	-OS,-VH,-LW	WD + \$ 58

DELIVERY

Hundreds of certified devices are maintained in stock for immediate delivery. Please call to check availability of your specific needs.

FOB


HROMalytic ECHnology
 Australian Distributors
 PO Box 435, 232 Forest Rd, Boronia, Victoria 3155, A
 Tel: +61 3 9762 2034 Fax: +61 3 9761 1169 email: sales@chromtech.net.au
 E-mail: info@chromtech.net.au
 Website: www.chromtech.net.au
 Tel No: +61 3 9762 2034 Fax: +61 3 9761 1169