



## NMR Deuterated Solvent

(주)비케이인스트루먼트는 프랑스 Euriso-top사의 한국총판으로 합리적인 가격에 다양한 제품을 공급하고 있습니다.



# NMR Solvent data chart

Solvent	<sup>1</sup> H Chemical Shift* (ppm from TMS) (multiplicity)	JHD (Hz)	Carbon-13 Chemical Shift* (ppm from TMS) (multiplicity)	JCD (Hz)	<sup>1</sup> H Chemical Shift of HOD** (ppm from TMS)	Density at 20°C***	Melting point (°C)***	Boiling point (°C)***	Dielectric Constant	Molecular Weight***
Acetic acid D <sub>4</sub>	11.65 (1) 2.04 (5)	2.2	178.99 (1) 20.0 (7)	20	11.5	1.12	16.7	118	6.1	64.08
Acetone D <sub>6</sub>	2.05 (5)	2.2	206.68 (1) 29.92 (7)	0.9 19.4	2.8	0.87	-94	56.5	20.7	64.12
Acetonitrile D <sub>3</sub>	1.94 (5)	2.5	118.69 (1) 1.39 (7)	21	2.1	0.84	-45	81.6	37.5	44.07
Benzene D <sub>6</sub>	7.16 (1)		128.39 (3)	24.3	0.4	0.95	5.5	80.1	2.3	84.15
Chloroform D	7.24 (1)		77.23 (3)	32.0	1.5	1.50	-63.5	61-62	4.8	120.38
Cyclohexane D <sub>12</sub>	1.38 (1)		26.43 (5)	19	0.8	0.89	6.47	80.7	2.0	96.24
Deuterium oxide	4.80 (DSS) 4.81 (TSP)		NA	NA	4.8	1.11	3.81	101.42	78.5	20.03
N,N Dimethyl-formamide D <sub>7</sub>	8.03 (1) 2.92 (5) 2.75 (5)	1.9 1.9	163.15 (3) 34.89 (7) 29.76 (7)	29.4 21.0 21.1	3.5	1.03	-61	153	36.7	80.14
1,2 Dichlorobenzene D <sub>4</sub>	6.93 (1) 7.19 (1)		127.19 (3) 130.04 (3) 132.39		0.8	1.3	-17	181	9.8	151.03
Dimethyl sulfoxide D <sub>6</sub>	2.50 (5)	1.9	39.51 (7)	21.0	3.3	1.19	18.45	189	46.7	84.17
1,4 Dioxane D <sub>8</sub>	3.53 (m)		66.66 (5)	21.9	2.4	1.13	11.8	101.1	2.2	96.16
Ethanol D <sub>6</sub>	5.19 (1) 3.56 (1) 1.11 (m)		56.96 (5) 17.31 (7)	22 19	5.3	0.89	-114.1	78.5	24.5	52.11
Hexafluoroisopropanol D <sub>2</sub>	4.41 (m) 4.86 (1)		68.07 (m) 120.66 (4)			1.6	-4	59		170.05
Isopropanol D <sub>8</sub>	1.1 (1) 3.89 (1) 5.27 (1)		25.8 (7) 64.5 (3)			0.9	-89	83	18.3	68.4
Methanol D <sub>4</sub>	4.78 (1) 3.31 (5)	1.7	49.15 (7)	21.4	4.9	0.89	-97.8	64.7	32.7	36.07
Methylene chloride D <sub>2</sub>	5.32 (3)	1.1	54.00 (5)	27.2	1.5	1.35	-95	39.75	8.9	86.95
Pyridine D <sub>5</sub>	8.74 (1) 7.58 (1) 7.22 (1)		150.35 (3) 135.91 (3) 123.87 (3)	27.5 24.5 25	5	1.05	-42	115.2	12.4	84.13
Tetrachloroethane D <sub>2</sub>	6.0 (1)		73.78 (3)			1.62	-44	146.5	8.2	169.86
Tetrahydrofuran D <sub>8</sub>	3.58 (1) 1.73 (1)		67.57 (5) 25.37 (5)	22.2 20.2	2.4-2.5	0.99	-108.5	66	7.6	80.16
Toluene D <sub>8</sub>	7.09 (m) 7.00 (1) 6.98 (5) 2.09 (5)	2.3	137.86 (1) 129.24 (3) 128.33 (3) 125.49 (3) 20.4 (7)	23 24 24 19	0.4	0.94	-95	110.6	2.4	100.19
Trifluoroacetic Acid D	11.50 (1)		164.2 (4) 116.6 (4)		11.5	1.49	-15.4	72.4		115.03
Trifluoroethanol D <sub>3</sub>	5.02 (1) 3.88 (4x3)	2(9)	126.3 (4) 61.5 (4x5)	22	5	1.41	-43.3	74.05		103.06

# Quick reference guide to euriso-top's solvent packaging sizes

CAS N°	Code	Solvent	0.6 ml	0.75 ml	1 ml	5 ml	10 ml	25 ml	100 ml	100 g	500 ml	1000 ml
1186-52-3	D012	Acetic Acid D <sub>4</sub> 99.5% D			BB		EA					
	D041	Acetic Acid D <sub>4</sub> 99.91% D			BB							
666-52-4	D009	Acetone D <sub>6</sub> 99.8% D	T	B			ES*, FE	F	H			
	D038	Acetone D <sub>6</sub> 99.96% D		B								
	D338	Acetone D <sub>6</sub> 99.96% D + 0.03% TMS		B								
2206-26-0	D021	Acetonitrile D <sub>3</sub> 99.8% D		B		FD	FE, EAS*			Z		
	D044	Acetonitrile D <sub>3</sub> 99.96% D		BB								
	D344	Acetonitrile D <sub>3</sub> 99.96% D + 0.03% TMS		BB								
1076-43-3	D001	Benzene D <sub>6</sub> 99.5% D	T	B			FE, ES*	F	H			
	D040	Benzene D <sub>6</sub> 99.96% D		B								
34193-38-9	D081	n-Butanol D <sub>10</sub> 98% D				FD						
865-49-6	D006	Chloroform D 99.5% D							H		K	
	D007	Chloroform D 99.8% D	T	B			FE	F	H, HAg	Z	K, KAg	L
	D213	Chloroform D 99.8% D + 1% TMS							H			
	D307	Chloroform D 99.8% D + 0.03% TMS						F	H, HAg	Z	K	
	D029	Chloroform D 99.96% D	T	B				F				
	D329	Chloroform D 99.96% D + 0.03% TMS	T	B				F				
1735-17-7	D017	Cyclohexane D <sub>12</sub> 99.5% D		BB		FD						
7698-05-7	D070	Deuterium Chloride (7,6N in D <sub>2</sub> O solution)								Z		
7789-20-0	D214	Deuterium Oxide 99.9% D		B			FE	F, FS*	H		K	L
	D215	Deuterium Oxide 99.96% D	T	B			ES*	F	H			
2189-69-1	D220	1,2-Dichlorobenzene D <sub>4</sub> 99% D				FD						
3855-82-1	D222	1,4-Dichlorobenzene D <sub>4</sub> 98% D				5g						
2206-27-1	D010	Dimethylsulfoxide D <sub>6</sub> 99.8% D	T	B		FD	FE, ES*	F	H			
	D310	Dimethylsulfoxide D <sub>6</sub> 99.8% D + 0.03% TMS		B			ES*	F	H			
	D610	Dimethylsulfoxide D <sub>6</sub> 99.8% D + 0.06% TMS		B				F				
	D031	Dimethylsulfoxide D <sub>6</sub> 99.9% D	T					F	H			
	D034	Dimethylsulfoxide D <sub>6</sub> 99.96% D	T	B		FD	EAS*		H			
	D334	Dimethylsulfoxide D <sub>6</sub> 99.96% D + 0.03% TMS	T	B								
17647-74-4	D112	Dioxane D <sub>8</sub> 99% D			CB							
1516-08-1	D114	Ethanol D <sub>6</sub> anhydrous 99% D			CB	FD						
925-93-9	D043	Ethanol OD 99% D						F	H			
38701-74-5	D052	Hexafluoroisopropanol D <sub>2</sub> 99% D			CB	FD	FE					
22739-76-0	D072V	Isopropanol D <sub>8</sub> 99% D					10 g					
1455-13-6	D015	Methanol OD 99%						F				
1849-28-2	D047	Methanol D <sub>3</sub> 99.5% D		B		FD						
811-98-3	D024	Methanol D <sub>4</sub> 99.8% D	T	B			FE, ES*	F, FS*	H			
	D324	Methanol D <sub>4</sub> 99.8% D + 0.03% TMS		B			FE					
	D048	Methanol D <sub>4</sub> 99.95% D	T	B		FD						
	D348	Methanol D <sub>4</sub> 99.95% D + 0.03% TMS		BB								
1655-00-5	D023	Methylene Chloride D <sub>2</sub> 99.8% D	T	B			FE	F				
	D049	Methylene Chloride D <sub>2</sub> 99.96% D		BB								
7291-22-7	D013	Pyridine D <sub>5</sub> 99.5% D	T	B			FE	F				
	D039	Pyridine D <sub>5</sub> 99.94% D		BB								
1310-73-2/77	D076Y	Sodium Deuterioxide (40% w/w solution in D <sub>2</sub> O)								50g		
7664-93-9	D077	Sulfuric Acid D <sub>2</sub> 96-98% in D <sub>2</sub> O								Z		
33685-54-0	D218	Tetrachloroethane D <sub>2</sub> 99.6% D					FE	F				
1693-74-9	D149	Tetrahydrofuran D <sub>8</sub> 99.5% D		BB	CB		FE	F				
2037-26-5	D005	Toluene D <sub>8</sub> 99.5% D		BB			FE	F				
	D042	Toluene D <sub>8</sub> 99.94% D		BB								
599-00-8	D022	Trifluoroacetic Acid D <sub>1</sub> 99.5% D		BB			EA					
77568-66-2	D208	Trifluoroethyl Alcohol D <sub>2</sub> 98% D		BB								
77253-67-9	D027	Trifluoroethyl Alcohol D <sub>3</sub> 99% D		BB								
308080-99-1	D206 PH	Deuterated Molecular Sieves 3A 99.8% D				5g						
70955-01-0	D207 PH	Deuterated Molecular Sieves 4A 99.8% D				5g						

NO HDO PEAK

T = 10 x 0.6ml  
B = 10 x 0.75ml  
BB = 2 x 0.75ml

CB = 2 x 1ml  
FD = 1 x 5ml  
E = 5 x 10ml

V = 1 x 10g  
FE = 1 x 10ml (Vial)  
EA = 1 x 10ml (Ampul)

K = 1 x 500ml  
L = 1 x 1000ml  
S\* = Vials "Penicilin" Type

Z = 100g  
HAg = 100ml + Silver  
KAg = 500ml + Silver



**BK  
Instruments  
Inc.**

www.bkinstruments.co.kr

34050 대전광역시 유성구 문지로 281-25 BKI 빌딩  
BKI Bldg., 281-25, Munji-Ro, Yuseong-Gu, Daejeon 34050 KOREA  
Tel. 042) 487 - 8240 Fax. 042) 488 - 8241  
E-mail. marketing@bkinstruments.co.kr

(주)비케이인스트루먼트 홈페이지에 방문하시면 다양한 제품을 만나 보실 수 있습니다.