# USE OMEGA FRONT COVER

#### USE OMEGA INSIDE FRONT COVER

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# **1.0 GENERAL DESCRIPTION**

- 1.1 The OMEGA® LV750 Series Level Switch is used to detect the presence of a material at a given level in a tank, bin or other container. It can be used with a wide range of both liquid and solid materials which may be electrically conductive or non-conductive. In some cases, the LV750 can be used to detect the level of an interface between a lighter and a heavier substance such as that found in an oil and water separator.
- 1.2 The standard version of the LV750 is housed in a general-purpose enclosure with an integral 12 inch long probe. The standard probe is a solid 3/8 inch diameter stainless steel rod. A time delay circuit is included as standard on the LV750. It operates on rising level and may be set to times of 0, 5, 10, and 15 seconds. The standard version of the LV750 is powered from 120 VAC but a DC powered version is also offered.
- 1.3 There are four models available:
  - LV751 General purpose, 3/8" diameter 316SS rod, acetal bushing, 1/2" NPT 316SS nipple
  - LV752 General purpose, 3/8" diameter 316SS rod, Teflon<sup>®</sup> bushing, 1/2" NPT 316SS nipple
  - LV753 Teflon<sup>®</sup> coated probe, 1/2" NPT 316SS nipple
  - LV754 Teflon<sup>®</sup> coated probe, 3/4" NPT Teflon<sup>®</sup> nipple

The standard probe length is 12 inches, however, lengths of up to 72 inches are available.

- 1.4 In most applications, the installation and calibration of the LV750 are easily accomplished by a competent electrician. Mounting the unit requires three basic steps. First, provide an opening in the tank or other container. Second, fit this opening with a pipe coupling or other threaded entry. Third, install the LV750 securely into the coupling or other fitting. The wiring of the unit may consist of as few as three wires, depending upon the application. No test equipment is required for calibration since the necessary calibration indicators are built into the unit. Seasonal recalibration of the unit is unnecessary due to its exceptional stability.
- 1.5 Because of the patented detection technique used in the LV750, it can tolerate reasonable amounts of sticky material buildup on the probe. In addition, the rugged construction techniques used in building the probes allow them to support the weight of such a buildup. For conductive liquids and materials with a high dielectric constant (greater than 30) that additionally have a tendancy to "bridge" between the probe and container wall, a Teflon<sup>®</sup> coated probe should be used. For chemical compatibility considerations, also request the 3/4" Teflon<sup>®</sup> nipple.

### 2.0 SPECIFICATIONS

2.1 ENVIRONMENTAL

Operating temperatures:

Electronics .....-40°C to +85°C (-40°F to +185°F) Probes......12 inches min length (standard) to 72 inches(special) Uncoated, acetal bushing......- $40^{\circ}$ C to  $+85^{\circ}$ C ( $-40^{\circ}$ F to  $+185^{\circ}$ F), 1500 psig @ 25°C (77°F), 0 psig @ 85°C (185°F) Uncoated, Teflon<sup>®</sup> bushing...... -40°C to +230°C (-40°F to +450°F) 1500 psig @ 25°C (77°F), 0 psig @ 230°C (450°F) Teflon<sup>®</sup> coated (except..... -40°C to +230°C (-40°F to +450°F) Teflon<sup>®</sup> nipple) 1500 psig @ 25°C (77°F), 0 psig @ 230°C (450°F) Teflon<sup>®</sup> coated, 3/4".....-40°C to +85°C (-40°F to +185°F), Teflon<sup>®</sup> nipple 150 psig @ 25°C (77°F), 0 psig @ 85°C (185°F) Minimum dielectric constants Liquid material sensing ......2.0 for standard uncoated probe see Dielectric Chart, pages16 & 17 ELECTRICAL or 9 to 35 VDC @ 100 mA max(optional) Relay DPDT (2 form C) dry contacts 

Time delay .....0, 5, 10, 15 seconds, selectable

2.2

#### 2.3 MECHANICAL

Process Connection	1/2" NPT (standard); 3/4" NPT (optional)
Wetted parts 316SS	rod, 316SS nipple, acetal (Teflon® optional)
Enclosure	
Overall Size	16.5 X 6.1 X 1.8 inches(419 X 155 X 46 mm)
Weight	





# 3.0 INSTALLATION AND CALIBRATION

- 3.1 After unpacking the unit, inspect it for any evidence of shipping damage. Any claims for damage due to shipping must be filed with the carrier who handled the package(s).
- 3.2 Select a mounting location for the LV750 unit and its attached sensing probe. See Figure 3.1 for recommended mounting practices. Figure 3.2 shows some mounting methods which have proven to be troublesome. Be sure that there is sufficient clearance around the mounting position to allow for the turning radius as the unit is screwed into place. Also, in the case of rigid probes, allow sufficient room to be able to insert the probe into the opening in the vessel. Cut a hole in the vessel that is at least large enough to allow the insulator portion of the probe to extend into the inside of the vessel and mount a threaded coupling to the vessel. The thread size of the coupling should be 1/2" NPT for standard probes. A 3/4" NPT fitting is required for some of the optional probes.

**CAUTION:** WHEN MAKING THE OPENING IN THE VESSEL, OBSERVE ALL SAFETY REQUIREMENTS OF THE AREA IN WHICH THE WORK IS BEING DONE. BE ESPECIALLY CAREFUL OF PRESSURIZED VESSELS.

**CAUTION:** SHOULD IT BE NECESSARY TO REMOVE THE PROBE ASSEMBLY FROM THE HOUSING FOLLOW THE DISASSEMBLY INSTRUCTIONS IN PARAGRAPHS 3.13 AND 3.14.

- 3.3 Screw the LV750 unit into the coupling and install conduit suitable to the environment in which the unit is to be used. See Figure 3.1 for a suggested conduit arrangement.
- 3.4 Wire the LV750 unit in accordance with the typical wiring diagrams of Figure 3.3, 3.4, or 3.5 or as may be required by the particular application in which the unit is to be used. Because of the extremely wide range of control and/or alarm applications in which the unit may be used, it is not possible to show all conceivable wiring diagrams. Consult OMEGA Engineering if assistance is desired.

**CAUTION:** BE SURE THAT ALL WIRING CONFORMS TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND ANY ENFORCING AUTHORITIES OR AGENCIES HAVING JURISDICTION OVER THE INSTALLATION.



Figure 3.1: Suggested Mounting Arrangements

Figure 3.2: Doubtful Mounting Arrangements



**Figure 3.3:** Typical Field Wiring Diagrams for 120 Volt A. C. Applications. These diagrams show typical hook-ups that may be useful in certain field situations. The lamp and horn represent visible and audible devices which may be controlled by the LV750. Many other hook-ups are possible. Consult OMEGA Engineering if you desire help.



**Figure 3.4:** Typical Field Wiring Diagrams for 24 Volt D. C. Applications. These diagrams show typical hook-ups that may be useful in certain field situations. The lamp and horn represent visible and audible devices which may be controlled by the LV750. Many other hook-ups are possible. Consult OMEGA Engineering if you desire help.



**Figure 3.5:** Typical Field Wiring Diagrams for 12 Volt D. C. Applications. These diagrams show typical hook-ups that may be useful in certain field situations. The lamp and horn represent visible and audible devices which may be controlled by the LV750. Many other hook-ups are possible. Consult OMEGA Engineering if you desire help.

- 3.5 Calibrate the LV750 unit using the following procedures. See Figure 3.6 for location of adjustments and controls.
- 3.6 The "fail-safe" selection is used to determine the mode of operation of the relay. In the "fail-safe" high (reverse action) mode, the relay will be energized until the material in the vessel touches the sensing probe. At this time the relay will de-energize. In the "fail-safe" low (direct action) mode, the relay will be de-energized until the material in the vessel touches the sensing probe. At this time the relay will energize. The "fail-safe" mode selection may be altered in the field by setting the "fail-safe" switch to the desired position. Unless otherwise specified, all units are preset at the factory for operation in the reverse action or "FAIL-SAFE" HI mode.
- 3.7 There is a choice of four time delay settings of 0, 5, 10, and 15 seconds. The time delay in all units operates upon a rising level of material in the vessel. That is, as the level rises and material makes contact with the sensing probe, the time delay period will begin. At the end of the time delay period, the relay will change condition. The time delay selection may be altered in the field by setting the time delay switches to the desired positions as described in Paragraph 3.12, Step 6 below.
- 3.8 The calibration potentiometer is used to adjust the level switch for a particular installation in a specific vessel. Once it is adjusted, it should not require further adjustments unless the installation is changed or the unit is moved to a different vessel.
- 3.9 During calibration, the red indicator light shows the proper setting of the calibration potentiometer. Once the level switch is properly calibrated, the indicator light will show the presence or absence of material at the sensing probe: ON when material is present and OFF when material is absent.
- 3.10 The green indicator light shows the status of the relay in the detector module: ON when the relay is energized and OFF when the relay is de-energized.
- 3.11 Once the level switch is properly installed, use the following steps to calibrate the unit to the particular tank in which it is to be used. The only equipment required is a small screwdriver to adjust the calibration potentiometer.



Figure 3.6: Location of Adjustments and Controls

#### 3.12 **READ ALL STEPS BEFORE BEGINNING:**

- STEP 1. Select the desired mode of operation for the relay. See Paragraph 3.6 for complete details. For ease of calibration set both time delay switches to the OFF position until STEP 6 is reached.
- STEP 2. Make sure that material is not touching the sensing probe.
- STEP 3. Remove the cover of the enclosure and locate the adjustment potentiometer. See Figure 3.6.
- **NOTE:** There are 20 complete turns of the adjustment potentiometer from one end to the other. When one or the other end is reached, the adjustment screw will continue to turn and "free wheel" (without damage) until the direction of the rotation is reversed.
- STEP 4. To make the preliminary setting of the adjustment potentiometer, observe the indicator light and proceed as follows:

If the light is **ON**:

Turn the potentiometer clockwise until the light goes OFF. Then slowly turn counter-clockwise until the light just comes back ON. Proceed to STEP 5.

If the light is **OFF**:

Turn the potentiometer counter-clockwise until the light just comes ON. Proceed to STEP 5.

- STEP 5. Very carefully turn the potentiometer clockwise until the indicator light just barely goes OFF. Then turn the potentiometer one-fourth turn further clockwise.
- STEP 6. Place your finger on the TOUCH TO TEST point. The red light should come on. Remove your finger and the red light should go back off. This verifies that the unit is functional.
- STEP 7. Bring the material in the vessel into contact with the sensing probe. The red indicator light should turn ON. This verifies that the unit is properly calibrated for your application.
- STEP 8. The time delay switch adjusts the length of the time delay. When switch 1 is in the ON position, 5 seconds will be added to the time delay. When switch 2 is in the ON position, 10 seconds will be added to the time delay. When both switches 1 and 2 are in the ON position, 15 seconds will be added to the time delay. When both switches 1 and 2 are in the OFF position, nothing will be added to the time delay and the

relay action will be nearly instantaneous. Set the desired time delay using switches 1 and 2.

This completes the calibration of the level switch unit and it is now ready to operate.

- 3.13 Should it be necessary to remove the probe assembly from the enclosure while the probe assembly remains installed in the process, first, loosen the screw at the TOUCH TO TEST point. Slip the wire lug off of the loosened screw. Position the probe wire straight out from the enclosure so that it may rotate freely without twisting as the enclosure is unscrewed from the probe assembly. When the enclosure is free of the probe assembly carefully guide the probe connection wire through the space between the enclosure and the encapsulated electronics module. Removing the two screws on the bottom of the enclosure will allow the encapsulated electronics module to be removed from the enclosure.
- 3.14 Reverse the procedure in Paragraph 3.13 to restore the unit to operation. Repeat the calibration procedure after any changes.

### 4.0 **OPERATION**

4.1 No operator actions are required to use this unit. When material in the vessel comes into contact with the sensing probe, the relay in the unit will change state. If the unit is programmed for operation in the "fail-safe" high mode, the relay will de-energize upon contact of the sensing probe with the material. If the unit is programmed for operation in the "fail-safe" low mode, the relay will de-energize upon loss of contact of the sensing probe with the material. Since the relay contacts may be used in a number of different ways, the operator should know what to expect when a change of condition occurs and be prepared to take any action required by the system in which the LV750 is used.



**Figure 3.7:** Typical Wiring Diagram and Device Status Chart. This diagram shows only one of many possible applications for the LV750 Level Switch. It provides a high level visible and audible alarm which helps the operator to avoid overfilling the vessel and possible spillage of material.

# 5.0 MAINTENANCE AND TROUBLESHOOTING

- 5.1 No routine maintenance is required other than keeping the interior of the unit clean and free of dirt, dust, and other contaminants.
- 5.2 The LV750 consists of two main sub-assemblies. These are the enclosure with the encapsulated detector module and the sensing probe assembly. The following troubleshooting guide will assist in determining how to correct most of the problems that may be encountered. Review the Installation and Calibration procedures in Section 3.0 prior to using this guide.

		PROBLEM	POSSIBLE CAUSE	SOLUTION
	5.3	LED cannot be	Sensing probe assembly not installed.	Install sensing probe assembly into enclosure.
		adjusted to turn	No power to unit.	Check for correct power to unit.
	-	ON.	Detector module non-functional.	Replace detector module.
	5.4	LED remains on at	Sensing probe is shorted to case or	Remove module from sensing probe. Turn
14		all times.	ground.	calibration potentiometer 20 turns clockwise.
				LED should go out. If so, repair, replace,
		_		or clean sensing probe.
	-		Detector module non-functional.	Replace detector module.
	5.5	Unit triggers when	Improper mounting of sensing probe.	Revise mounting. See Figures 3.1 and 3.2.
		material touches sensing	Improper calibration procedure.	See Paragraph 3.12.
		probe, but will not reset	Excessive material buildup on probe.	Perform a "dirty probe calibration":
		when material recedes		Recalibrate with built up material on probe.
		from probe or unit	Probe is mounted in flow of material.	Revise mounting. See Figures 3.1 and 3.2.
	-	gives false alarms.		
	5.6	Unit will not detect	Improper calibration.	See Paragraph 3.12.
		material.	Unit was calibrated with material	Be sure material is not touching probe,
			touching probe.	then recalibrate.
_				
1/1				
6/0]				

LV		PROBLEM	POSSIBLE CAUSE	SOLUTION
750	5.7	Unit will not stay	Poor grounding of case to vessel.	Provide secure ground connection.
		in calibration.		
	5.8	Relay operates properly,	Burned or broken lands in detector	Replace detector module.
		but no contact closure	module.	
		at wiring terminals.		
<u>⊢</u>				
S				
11/1				
6/01				

ABS RESIN ACENAPHTHENE ACETAL ACETAL BROMIDE ACETAL DOXIME ACETALDEHYDE ACETAMIDE ACETANILIDE ACETIC ACID ACETONE ACETONITRILE ACETOPHENONE ACETOXIME ACETYL ACETONE ACETYL BROMIDE ACETYL CHLORIDE ACRYLIC RESIN ACTEAL AIR ALCOHOL, INDUSTRIAL ALKYD RESIN ALLYL ALCOHOL ALLYL BROMIDE ALLYL CHLORIDE ALLYL IODIDE ALLYL RESIN (CAST) ALUMINA CHINA ALUMINA ALUMINUM FLUORIDE ALUMINUM HYDROXIDE ALUMINUM OLEATE ALUMINUM PHOSPHATE ALUMINUM POWDER AMBER AMINOALKYD RESIN AMMONIA AMMONIUM BROMIDE AMMONIUM CHLORIDE AMYL ACETATE AMYL ALCOHOL AMYL BENZOATE AMYL BROMIDE AMYL CHLORIDE AMYL ETHER AMYL FORMATE AMYL IODIDE AMYL NITRATE AMYL THIOCYANATE AMYLAMINE AMYLENE AMYLENE BROMIDE AMYLMERCAPTAN ANILINE ANISOLE APATITE ARSENIC TRIBROMIDE ARSENIC TRICHLORIDE ASBESTOS ASPHALT [B] BAKELITE BARIUM CHLORIDE BARIUM NITRATE BARIUM SULFATE BARLEY FLOUR BEESWAX BENZAL CHLORIDE BENZALDEHYDE BENZALDOXIME BENZENE BENZONITRILE BENZOPHENONE BENZOTRICHLORIDE BENZOYL CHLORIDE BENZOYLACETONE BENZYL ACETATE BENZYL ALCOHOL BENZYL BENZOATE BENZYL CHLORIDE BENZYL CYANIDE BENZYL SALICYLATE

2.4	BENZYLAMINE	4.6
3	BENZYLETHYLAMINE	4.3
3.6	BENZYLMETHYLAMINE	4.4
16.5	BERYL	6
3.4	BIPHENYL	20
21.8	BLEACHING POWDER	4.5
41	BONE BLACK	5.0 - 6.0
2.9	BORNYL ACETATE	4.6
6.2	BORON BROMIDE	2.6
20.7	BROMAL	7.6
37.5	BROMINE	31
17.3	BROMOANISOLE	71
3	BROMOBENZENE	5.4
23.1	BROMOBLITYLENE	5.8
16.5		3.0
10.0	BROMOBULTRICACID	7.2
15.0	BROMOCIADECANE	3.55
2.7 - 4.5	BROMODODECANE	4.1
3.6	BROMOFORM	4.4
1	BROMOHEPTANE	5.3
16 - 31	BROMOHEXADECANE	3.7
3.5 - 5.0	BROMOHEXANE	5.8
22	BROMOMETHANE	9.8
7	BROMONAPTHALENE	5.1
8.2	BROMOOCTADECANE	3.5
6.1	BROMOPENTADECANE	3.9
3.6 - 4.5	BROMOPROPIONIC ACID	11
3.1 - 3.9	BROMOTOLUENE	5.1
4.5 - 11.5	BROMOTRIDECANE	4.2
2.2	BROMYL CHLORIDE	5.21
2.2	BUTANOL (1)	17.8
2.4	BUTANONE	18.5
		12
16-18		12
20 20		10
2.0 - 2.9		5.0
3.9 - 4.2	BUTTL OLEATE	4
16.5	BUTYL AGETATE	3.1
7.2	BUTYLACETATE	5.1
7	BUTYLAMINE	5.4
5	BUTYRALDEHYDE	13.4
15.8	BUTYRIC ACID	3
5.1	BUTYRONITRILE	20.7
5.1 6.3	BUTYRONITRILE [C]	20.7
5.1 6.3 6.6	BUTYRONITRILE [C] CALCITE	20.7 8
5.1 6.3 6.6 3.1	BUTYRONITRILE [C] CALCITE CALCIUM	20.7 8 3
5.1 6.3 6.6 3.1 5.7	BUTYRONITRILE [C] CALCITE CALCIUM CALCIUM CARBONATE	20.7 8 3 9.1
5.1 6.3 6.6 3.1 5.7 6.9	BUTYRONITRILE [C] CALCITE CALCIUM CALCIUM CALCIUM CARBONATE CALCIUM FLUORIDE	20.7 8 3 9.1 7.4
5.1 6.3 6.6 3.1 5.7 6.9 9.1	UTYRONITRILE [C] CALCITE CALCIUM CALCIUM CARBONATE CALCIUM FLUORIDE CALCIUM FLUORIDE	20.7 8 3 9.1 7.4 7.4
5.1 6.3 6.6 3.1 5.7 6.9 9.1 17.4	BUTYRONITRILE [C] CALCITE CALCIUM CARBONATE CALCIUM FLUORIDE CALCIUM FLUORIDE CALCIUM OXIDE	20.7 8 3 9.1 7.4 7.4 11.8
5.1 6.3 6.6 3.1 5.7 6.9 9.1 17.4 4.6	BUTYRONITRILE [C] CALCITE CALCIUM CALCIUM CARBONATE CALCIUM FLUORIDE CALCIUM FLUORIDE CALCIUM SULFATE	20.7 8 9.1 7.4 7.4 11.8 5.6
5.1 6.3 6.6 3.1 5.7 6.9 9.1 17.4 4.6 2	BUTYRONITRILE [C] CALCITE CALCIUM CALCIUM CARBONATE CALCIUM CARBONATE CALCIUM FLUORIDE CALCIUM FLUORIDE CALCIUM SULFATE CALCIUM SULFATE CAMPHENE	20.7 8 3 9.1 7.4 7.4 11.8 5.6 2.7
5.1 6.3 6.6 3.1 5.7 6.9 9.1 17.4 4.6 2 5.6	BUTYRONITRILE [C] CALCITE CALCIUM CALCIUM CARBONATE CALCIUM FLUORIDE CALCIUM FLUORIDE CALCIUM SUIDE CALCIUM SUIDE CALCIUM SUIDE CALCIUM SUIDE CANCHENE CAMPHENE CAMPHER, CRYSTAL	20.7 8 3 9.1 7.4 7.4 11.8 5.6 2.7 10.0 - 11.0
5.1 6.3 6.6 3.1 5.7 6.9 9.1 17.4 4.6 2 5.6 4.7	BUTYRONITRILE [C] CALCITE CALCIUM CALCIUM CALCIUM CARBONATE CALCIUM FLUORIDE CALCIUM FLUORIDE CALCIUM SULFATE CALCIUM SULFATE CAMPHENE CAMPHER, CRYSTAL CAMPHORPINACONE	20.7 8 3 9.1 7.4 7.4 11.8 5.6 2.7 10.0 - 11.0 3.6
5.1 6.3 6.6 3.1 5.7 6.9 9.1 17.4 4.6 2 5.6 4.7 7.3	BUTYRONITRILE [C] CALCITE CALCIUM CALCIUM CARBONATE CALCIUM CARBONATE CALCIUM FLUORIDE CALCIUM FLUORIDE CALCIUM SULFATE CAMPHENE CAMPHENE, CRYSTAL CAMPHORPINACONE CARPYLIC ACID	20.7 8 3 9.1 7.4 11.8 5.6 2.7 10.0 - 11.0 3.6 3.2
5.1 6.3 6.6 3.1 5.7 6.9 9.1 17.4 4.6 2 5.6 4.7 7.3 4.3	BUTYRONITRILE [C] CALCITE CALCIUM CALCIUM CARBONATE CALCIUM CARBONATE CALCIUM FLUORIDE CALCIUM FLUORIDE CALCIUM SULFATE CAMPHENE CAMPHENE CAMPHENE CAMPHORPINACONE CAPPIDE	20.7 8 3 9.1 7.4 7.4 11.8 5.6 2.7 10.0 - 11.0 3.6 3.2 5.8 - 7.0
5.1 6.3 6.6 3.1 5.7 9.1 17.4 4.6 2 5.6 4.7 7.3 4.3	BUTYRONITRILE [C] CALCITE CALCIUM CALCIUM CARBONATE CALCIUM FLUORIDE CALCIUM FLUORIDE CALCIUM FLUORIDE CALCIUM SULFATE CAMPHENE CAMPHENE CAMPHENE CAMPHENE CAMPHORPINACONE CAPRYLIC ACID CARBIDE CARBON BLACK	20.7 8 3 9.1 7.4 7.4 11.8 5.6 2.7 10.0 - 11.0 3.6 3.2 5.8 - 7.0 2.5 - 3.0
5.1 6.3 6.6 3.1 5.7 6.9 9.1 17.4 4.6 2.6 4.7 7.3 4.3 7.4	BUTYRONITRILE [C] CALCITE CALCIUM CALCIUM CARBONATE CALCIUM CARBONATE CALCIUM FLUORIDE CALCIUM SULOE CALCIUM SULFATE CAMPHENE CAMPHENE CAMPHORPINACONE CAPRON DISULPHIDE CARBON BLACK CADBON DISULPHIDE	20.7 8 3 9.1 7.4 7.4 11.8 5.6 2.7 10.0 - 11.0 3.6 3.2 5.8 - 7.0 2.5 - 3.0 2.5
5.1 6.3 6.6 3.1 5.7 6.9 9.1 17.4 4.6 2 5.6 4.7 7.3 4.3 7.4 9 9 12.4	BUTYRONITRILE [C] CALCITE CALCIUM CALCIUM CARBONATE CALCIUM CARBONATE CALCIUM FLUORIDE CALCIUM SULFATE CAMPHENE CAMPHENE CAMPHENE, CRYSTAL CAMPHORPINACONE CARBIDE CARBON BLACK CARBON BLACK CARBON DEULPHIDE CARBON TETPACHI OPIDE	20.7 8 3 9.1 7.4 11.8 5.6 2.7 10.0 - 11.0 3.6 3.2 5.8 - 7.0 2.5 - 3.0 2.6 2.2
5.1 6.3 6.6 3.1 17.4 4.6 2 5.6 4.7 7.3 7.4 9 12.4 8	BUTYRONITRILE [C] CALCITE CALCIUM CALCIUM CARBONATE CALCIUM FLUORIDE CALCIUM FLUORIDE CALCIUM SULFATE CALCIUM SULFATE CAMPHENE CAMPHENE, CRYSTAL CAMPHORPINACONE CARPHORPINACONE CARBON DELACK CARBON BLACK CARBON DISULPHIDE CARBON TETRACHLORIDE CARBON TETRACHLORIDE	20.7 8 3 9.1 7.4 7.4 11.8 5.6 2.7 10.0 - 11.0 3.6 3.2 5.8 - 7.0 2.5 - 3.0 2.6 2.2 2.0 2.5 3.0 2.6 2.2 2.0 2.5 3.0 2.6 2.7 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2
5.1 6.3 6.6 3.1 7.7 6.9 9.1 17.4 4.6 2 5.6 4.7 7.3 4.3 7.4 9 12.4 4.8 8 25	BUTYRONITRILE [C] CALCITE CALCIUM CALCIUM CARBONATE CALCIUM CARBONATE CALCIUM FLUORIDE CALCIUM SULFATE CALCIUM SULFATE CAMPHENE CAMPHENE CAMPHER, CRYSTAL CAMPHORPINACONE CARPHORPINACONE CARBIDE CARBON BLACK CARBON DISULPHIDE CARBON TETRACHLORIDE CARBON TETRACHLORIDE CARNAUBA WAX CARDICANDE	20.7 8 3 9.1 7.4 7.4 11.8 5.6 2.7 10.0 - 11.0 3.6 3.2 5.8 - 7.0 2.5 - 3.0 2.6 2.2 2.9 10.4
5.1 6.3 6.6 3.1 5.7 6.9 9.1 17.4 4.6 2 5.6 4.7 7.3 4.3 7.4 9 12.4 4.8 2.6	BUTYRONITRILE [C] CALCITE CALCIUM CALCIUM CARBONATE CALCIUM FLUORIDE CALCIUM FLUORIDE CALCIUM FLUORIDE CALCIUM SULFATE CALCIUM SULFATE CAMPHENE CAMPHENE CAMPHENE CAMPHORPINACONE CAPRYLIC ACID CARBIDE CARBON BLACK CARBON DISULPHIDE CARBON TETRACHLORIDE CARNAUBA WAX CARVENONE CARPIOL	20.7 8 3 9.1 7.4 7.4 11.8 5.6 2.7 10.0 - 11.0 3.6 3.2 5.8 - 7.0 2.5 - 3.0 2.5 - 3.0 2.6 2.2 2.9 18.4 11.2
5.1 6.3 6.6 3.1 5.7 6.9 9.1 17.4 4.6 2.6 4.7 7.3 4.3 7.4 4.3 7.4 4.8 2.6	BUTYRONITRILE [C] CALCITE CALCIUM CALCIUM CARBONATE CALCIUM CARBONATE CALCIUM FLUORIDE CALCIUM FLUORIDE CALCIUM SULFATE CACIUM SULFATE CAMPHER CAMPHER, CRYSTAL CAMPHORPINACONE CAPRYLIC ACID CARBIDE CARBON DISULPHIDE CARBON DISULPHIDE CARBON DISULPHIDE CARBON TETRACHLORIDE CARVOL CARVOL CASEIN	20.7 8 3 9.1 7.4 7.4 11.8 5.6 2.7 10.0 - 11.0 3.6 3.2 5.8 - 7.0 2.5 - 3.0 2.5 - 3.0 2.6 2.2 2.9 18.4 11.2 6.4 1.2 2.1 1.2 1.2 1.2 1.2 1.2 1.2
5.1 6.3 6.6 3.1 5.7 6.9 9.1 17.4 4.6 2 5.6 4.7 7.3 7.4 9 12.4 4.8 2.6 3.5-5.0	BUTYRONITRILE [C] [CALCITE CALCIUM CALCIUM CARBONATE CALCIUM FLUORIDE CALCIUM FLUORIDE CALCIUM SULFATE CALCIUM SULFATE CAMPHENE CAMPHENE, CRYSTAL CAMPHORPINACONE CARPHORPINACONE CARBON BLACK CARBON BLACK CARBON DISULPHIDE CARBON TETRACHLORIDE CARBON TETRACHLORIDE CARVOL CARVOL CASEIN CARDON E	20.7 8 3 9.1 7.4 11.8 5.6 2.7 10.0 - 11.0 3.6 3.2 5.8 - 7.0 2.5 - 3.0 2.5 2.9 18.4 11.2 6.1 - 6.8
5.1 6.3 6.6 3.1 17.4 4.6 2 5.6 4.7 7.3 4.3 7.4 9 12.4 4.8 2.6 3.5 - 5.0 11	BUTYRONITRILE [C] CALCITE CALCIUM CALCIUM CARBONATE CALCIUM FLUORIDE CALCIUM FLUORIDE CALCIUM SULFATE CALCIUM SULFATE CAMPHENE CAMPHENE, CRYSTAL CAMPHORPINACONE CAMPHORPINACONE CARBON BLACK CARBON DISULPHIDE CARBON DISULPHIDE CARBON SULACK CARBON DISULPHIDE CARBON TETRACHLORIDE CARAUBA WAX CARVENONE CASEIN CASTOR OLL CASTOR OLL	20.7 8 3 9.1 7.4 7.4 11.8 5.6 2.7 10.0 - 11.0 3.6 3.2 5.8 - 7.0 2.5 - 3.0 2.6 2.2 2.9 18.4 11.2 6.1 - 6.8 2.6
5.1 6.3 6.6 3.1 7.7 6.9 9.1 17.4 4.6 2 5.6 4.7 7.3 4.3 7.4 9 12.4 4.8 2.6 3.5 - 5.0 11 5.8	BUTYRONITRILE [C] CALCITE CALCIUM CALCIUM CARBONATE CALCIUM FLUORIDE CALCIUM FLUORIDE CALCIUM SULFATE CALCIUM SULFATE CAMPHENE CAMPHENE CAMPHENE CAMPHORPINACONE CARBON BLACK CARBON DISULPHIDE CARBON DISULPHIDE CARBON DISULPHIDE CARBON TETRACHLORIDE CARBON TETRACHLORIDE CARAUBA WAX CARVENONE CARVENONE CASEIN CASTOR OIL CEDENE	20.7 8 3 9.1 7.4 7.4 11.8 5.6 2.7 10.0 - 11.0 3.6 3.2 5.8 - 7.0 2.5 - 3.0 2.5 - 3.0 2.5 2.2 2.9 18.4 11.2 6.1 - 6.8 2.6 3.2 2.9 18.4 11.2 6.1 - 6.8 3.2 2.9 18.4 11.2 6.1 - 6.8 3.2 2.9 18.4 11.2 6.1 - 6.8 3.2 2.9 18.4 11.2 6.1 - 6.8 3.2 2.9 18.4 11.2 1.2 1.2 1.2 1.2 1.2 1.2 1.
5.1 6.3 6.6 3.1 5.7 6.9 9.1 17.4 4.6 2 5.6 4.7 7.3 4.3 7.4 9 12.4 4.8 2.6 3.5 - 5.0 11 5.8 11.4	BUTYRONITRILE [C] [C] CALCITE CALCIUM CALCIUM CARBONATE CALCIUM FLUORIDE CALCIUM FLUORIDE CALCIUM SULFATE CAMPHENE CAMPHENE CAMPHENE, CRYSTAL CAMPHENE, CRYSTAL CAMPHORPINACONE CARBON BLACK CARBON BLACK CARBON DISULPHIDE CARBON DISULPHIDE CARBON TETRACHLORIDE CARBON TETRACHLORIDE CARVOL CARVOL CASTIN CASTOR OIL CEDRENE CELOPHANE	20.7 8 3 9.1 7.4 7.4 11.8 5.6 2.7 10.0 - 11.0 3.6 3.2 5.8 - 7.0 2.5 - 3.0 2.5 - 3.0 2.5 - 3.0 2.6 2.2 2.9 18.4 11.2 6.1 - 6.8 2.6 3.2 3.2 - 6.4
5.1 6.3 6.6 3.1 17.4 4.6 2 5.6 4.7 7.3 7.4 9 12.4 8.2 6 3.5 - 5.0 11. 5.8 11.4 3.0 - 4.0	BUTYRONITRILE [C] [CALCITE CALCIUM CALCIUM CARBONATE CALCIUM CARBONATE CALCIUM FLUORIDE CALCIUM FLUORIDE CALCIUM SULFATE CAMPHENE CAMPHENE CAMPHENE, CRYSTAL CAMPHENE, CRYSTAL CAMPHORPINACONE CARBON BLACK CARBON BLACK CARBON BLACK CARBON DISULPHIDE CARBON TETRACHLORIDE CARBON TETRACHLORIDE CARVOL CARVOL CASTOR OIL CCEDENE CELLOPHANE CELLUCOID	20.7 8 3 9.1 7.4 11.8 5.6 2.7 10.0 - 11.0 3.6 3.2 5.8 - 7.0 2.5 - 3.0 2.5 - 3.0 2.5 2.9 18.4 11.2 6.1 - 6.8 2.6 3.2 3.2 - 6.4 3.3 - 11
5.1 6.3 6.6 3.1 17.4 6.9 9.1 17.4 2 5.6 4.7 7.3 3 7.4 9 12.4 4.8 2.6 3.5 - 5.0 11 5.8 11.4 3.0 - 4.0 2.7 - 3.0	EUTYRONITRILE [C] CALCITE CALCIUM CALCIUM CARBONATE CALCIUM CARBONATE CALCIUM FLUORIDE CALCIUM SULORIDE CALCIUM SULFATE CAMPHENE CAMPHENE, CRYSTAL CAMPHORPINACONE CARPHORPINACONE CARBON BLACK CARBON BLACK CARBON DISULPHIDE CARBON DISULPHIDE CARBON TETRACHLORIDE CARBON TETRACHLORIDE CARBON TETRACHLORIDE CARSTON OIL CASEIN CASTOR OIL CEDLUOPHANE CELLUCID CELLULOSE	20.7 8 3 9.1 7.4 7.4 11.8 5.6 2.7 10.0 - 11.0 3.6 3.2 5.8 - 7.0 2.5 - 3.0 2.5 3.2 6.1 - 6.8 2.6 3.2 3.2 - 6.4 3.3 - 11 3.2 - 7.5
5.1 6.3 6.6 3.1 7.7 6.9 9.1 17.4 4.6 2 5.6 4.7 7.3 4.3 7.4 9 12.4 4.8 2.6 3.5 - 5.0 11 5.8 11.4 3.0 - 4.0 2.7 - 3.0 6.9	EUTYRONITRILE [C] CALCITE CALCIUM CALCIUM CARBONATE CALCIUM FLUORIDE CALCIUM FLUORIDE CALCIUM SULFATE CALCIUM SULFATE CAMPHENE CAMPHENE, CRYSTAL CAMPHORPINACONE CAMPHORPINACONE CARBON BLACK CARBON BLACK CARBON DISULPHIDE CARBON DISULPHIDE CARBON TETRACHLORIDE CARBON TETRACHLORIDE CARBON TETRACHLORIDE CARSUN CASTOR OIL CASEIN CASTOR OIL CEDRENE CELLOPHANE CELLUOID CELULOSE CELLULOSE NITRATE	$\begin{array}{c} 20.7\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $
5.1 6.3 6.6 3.1 7.7 6.9 9.1 17.4 4.6 2 5.6 4.7 7.3 4.3 7.4 9 12.4 4.8 2.6 3.5 - 5.0 11 5.8 11.4 3.0 - 4.0 2.7 - 30 6.9 17.8	IC)         IC)         CALCITE         CALCIUM         CALCIUM CARBONATE         CALCIUM FLUORIDE         CALCIUM FLUORIDE         CALCIUM SULFATE         CALCIUM SULFATE         CAMPHENE         CARBON BLACK         CARBON BLACK         CARBON DISULPHIDE         CARBON DISULPHIDE         CARNAUBA WAX         CARVENONE         CASEIN         CASTOR OIL         CEDRENE         CELLOPHANE         CELLUOSE         CENULOSE	$\begin{array}{c} 20.7\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $
5.1 6.3 6.6 3.1 5.7 6.9 9.1 17.4 4.6 2 5.6 4.7 7.3 7.4 9 12.4 8.2 12.4 8.2 12.4 3.5 - 5.0 11.4 3.0 - 4.0 2.7 - 3.0 6.9 17.4 6.9 17.4 12.4 12.	BUTYRONITRILE [C] [CALCITE CALCIUM CALCIUM CARBONATE CALCIUM CARBONATE CALCIUM FLUORIDE CALCIUM FLUORIDE CALCIUM SULFATE CAMPHENE CAMPHENE CAMPHEN, CRYSTAL CAMPHEN, CRYSTAL CAMPHORPINACONE CARBON BLACK CARBON BLACK CARBON BLACK CARBON DISULPHIDE CARBON TETRACHLORIDE CARBON TETRACHLORIDE CARVOL CARVOL CASTOR OIL CCEDENE CELLOPHANE CELLULOSE CELLULOSE CELLULOSE NITRATE CEMENT CHARCOAL	$\begin{array}{c} 20.7\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $
5.1 6.3 6.6 3.1 17.4 6.9 9.1 17.4 2 5.6 4.7 7.3 3 7.4 9 12.4 4.8 2.6 3.5 - 5.0 11 5.8 11.4 3.0 - 4.0 2.7 - 3.0 6.9 17.8 3.2 3.0 - 4.0 2.7 - 3.0	IC)         IC)         CALCITE         CALCIUM         CALCIUM CARBONATE         CALCIUM FLUORIDE         CALCIUM FLUORIDE         CALCIUM SULFATE         CAMPHENE         CAMPHORPINACONE         CARBON BLACK         CARBON DISULPHIDE         CARBON DISULPHIDE         CARBON TETRACHLORIDE         CARVOL         CASEIN         CASTOR OIL         CEDENENE         CELLUPHANE         CELLULOSE         CELLULOSE         CHLORINE	$\begin{array}{c} 20.7\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $
5.1 6.3 6.6 3.1 7.7 6.9 9.1 17.4 4.6 2 5.6 4.7 7.3 4.3 7.4 9 12.4 4.8 2.6 3.5 - 5.0 11 5.8 11.4 3.0 - 4.0 2.7 - 3.0 6.9 17.8 3.8 3.2 3.2 6	IC)         IC)         CALCITE         CALCIUM         CALCIUM CARBONATE         CALCIUM FLUORIDE         CALCIUM FLUORIDE         CALCIUM SULFATE         CAMPHENE         CAMPHORPINACONE         CARBON BLACK         CARBON DISULPHIDE         CARBON DISULPHIDE         CARBON DISULPHIDE         CARVENONE         CASTOR OIL         CASTOR OIL         CELLULOID         CELLULOSE         CELULOSE NITRATE         CEMENT         CHLORINE	$\begin{array}{c} 20.7\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $
$\begin{array}{c} 5.1 \\ 6.3 \\ 6.6 \\ 3.1 \\ 7.7 \\ 6.9 \\ 9.1 \\ 17.4 \\ 4.6 \\ 2 \\ 5.6 \\ 4.7 \\ 7.3 \\ 4.3 \\ 7.4 \\ 4.8 \\ 2.6 \\ 3.5 - 5.0 \\ 11 \\ 5.8 \\ 11.4 \\ 3.0 - 4.0 \\ 2.7 - 3.0 \\ 6.9 \\ 17.8 \\ 3.8 \\ 2.3 \\ 6.9 \\ 13 \\ 13 \\ 13 \\ 13 \\ 13 \\ 13 \\ 13 \\ 1$	BUTYRONITRILE [C] [CALCITE CALCIUM CALCIUM CARBONATE CALCIUM FLUORIDE CALCIUM FLUORIDE CALCIUM SULFATE CAMPHENE CAMPHENE CAMPHENE, CRYSTAL CAMPHENE, CRYSTAL CAMPHORPINACONE CARBON BLACK CARBON BLACK CARBON BLACK CARBON DISULPHIDE CARBON DISULPHIDE CARBON TETRACHLORIDE CARBON DISULPHIDE CARBON DISULPHIDE CARVOL CASTOR OIL CEDRENE CELLUCHANE CELLUCID CELLUCSE NITRATE CELLUCSE NITRATE CELLUCSE NITRATE CHARCOAL CHLOROACETIC ACID	$\begin{array}{c} 20.7\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $
5.1 6.3 6.6 3.1 17.4 4.6 2 5.6 4.7 7.3 7.4 9 12.4 4.8 2.5 12.4 4.8 2.5 12.4 3.5 - 5.0 1.1 5.8 11.4 3.0 - 4.0 2.7 - 3.0 6.9 1.4 3.8 2.3 2.6 1.4 3.8 2.3 2.6 1.4 3.8 2.3 2.6 1.4 3.8 2.3 2.6 1.4 3.8 2.3 2.6 1.4 3.8 2.3 2.6 1.4 3.8 2.3 2.6 1.4 3.8 2.3 2.6 1.4 3.8 3.5 1.4 3.8 3.7 1.4 3.8 3.7 1.4 3.8 3.7 1.4 3.8 3.8 3.7 1.4 3.8 3.8 3.7 1.4 3.8 3.8 3.7 1.4 3.8 3.8 3.8 3.7 1.4 3.8 3.8 3.8 3.7 1.4 3.8 3.	BUTYRONITRILE [C] [CALCITE CALCIUM CALCIUM CARBONATE CALCIUM CARBONATE CALCIUM FLUORIDE CALCIUM FLUORIDE CALCIUM SULFATE CAMPHENE CAMPHENE CAMPHENE, CRYSTAL CAMPHENE, CRYSTAL CAMPHORPINACONE CARBON DISULFATE CARBON BLACK CARBON DISULPHIDE CARBON DISULPHIDE CARBON DISULPHIDE CARBON TETRACHLORIDE CARVOL CARVOL CASTOR OIL CEDENE CELLOPHANE CELLULOSE CELLUCOSE CELLUCOSE CELLORINE CHLOROACETICACID	20.7 8 3 9.1 7.4 11.8 5.6 2.7 10.0 - 11.0 3.6 3.2 5.8 - 7.0 2.5 - 3.0 2.5 - 3.0 2.5 2.9 18.4 11.2 6.1 - 6.8 3.2 3.2 - 6.4 3.3 - 11 3.2 - 7.5 6.4 1.5 - 2.1 1.2 - 1.81 2 29.8 5.6
5.1 6.3 6.6 3.1 1.7,4 4.6 2 5.6 4.7 7.3 3 7,4 9 12,4 4.8 2.6 3.5 - 5.0 11 8 5.1 4.7 7.3 3 7,4 9 12,4 4.8 2.6 3.5 - 5.0 11 8 5.1 6.9 9 12,4 4.8 6 6 6 9 9 11 17,4 6 9 9 12,4 4.8 6 6 9 9 12,4 4.8 6 6 9 9 12,4 4.8 6 6 9 9 11 17,4 6 9 9 12,4 7 7,3 3 7,4 9 12,4 4.8 6 6 9 9 12,4 7 7,3 3 7,4 9 12,4 4.8 6 6 9 12,4 7 7,3 3 7,4 9 12,4 4.8 6 6 9 12,4 7 7,3 3 7,4 9 12,4 4.8 6 6 11 17,4 7,4 9 12,4 4.8 6 11 17,4 7,4 9 12,4 4.8 6 11 17,4 7,3 3 7,4 9 12,4 4.8 6 11 1,7 7,4 7,3 3 7,4 9 12,4 4.8 6 11 1,7 7,4 9 12,4 4.8 6 11,7 7,3 0 11,7 4 8 8 11,4 12,4 12,4 12,4 12,4 13,5 12,6 11,7 11,7 13 13,7 14 14 14 14 14 14 14 14 14 14 14 14 14	BUTYRONITRILE [C] [CALCITE CALCIUM CALCIUM CARBONATE CALCIUM FLUORIDE CALCIUM FLUORIDE CALCIUM SULFATE CALCIUM SULFATE CAMPHENE CAMPHENE, CRYSTAL CAMPHENE, CRYSTAL CARBON BLACK CARBON BLACK CARBON DISULPHIDE CARBON DISULPHIDE CARBON TETRACHLORIDE CARBON TETRACHLORIDE CASEIN CASTOR OIL CEDRENE CELLUORE CELLUORE NITRATE CEMNT CHLOROACETICACID CHLOROACETONE CHLOROCYCLOHEXANE	$\begin{array}{c} 20.7\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $
5.1 6.3 6.6 3.1 7.7 6.9 9.1 17.4 4.6 2 5.6 4.7 7.3 3.4 4.8 2.6 3.5 - 5.0 11 5.8 4.3 2.6 3.5 - 5.0 11 5.8 4.3 0 - 4.0 2.7 - 3.0 6.9 17.8 3.8 2.6 3.1 3.1 7.4 3.8 3.5 3.6 3.1 3.1 7.4 3.8 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5	BUTYRONITRILE [C] CALCITE CALCIUM CALCIUM CARBONATE CALCIUM FLUORIDE CALCIUM FLUORIDE CALCIUM SULFATE CALCIUM SULFATE CAMPHERE CAMPHER, CRYSTAL CAMPHORPINACONE CAPRYLIC ACID CARBON BLACK CARBON BLACK CARBON DISULPHIDE CARBON DISULPHIDE CARBON DISULPHIDE CARBON TETRACHLORIDE CARBON TETRACHLORIDE CARSTOR OIL CASCIN CASTOR OIL CASCIN CASTOR OIL CELLULOSE CELLULOSE CELLULOSE CELLULOSE CELLULOSE CHLOROACETIC ACID CHLOROACETIC ACID CHLOROCYCLOHEXANE CHLOROFORM	$\begin{array}{c} 20.7\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $
5.1 6.3 6.6 3.1 7.7 6.9 9.1 17.4 4.6 2 5.6 4.7 7.3 4.3 7.4 9 12.4 4.8 2.6 3.5 - 5.0 11 5.8 11.4 3.0 - 4.0 2.7 - 3.0 6.9 17.8 3.8 2.6 13 7.4 19 19.8 3.5 5.6 11.4 3.6 11.4 3.6 1.4 3.6 1.4 3.6 1.4 3.6 1.4 3.8 3.6 1.4 3.8 3.6 1.4 3.8 3.5 5.0 1.4 3.8 3.5 5.0 1.4 3.8 3.6 1.4 3.8 3.6 1.4 3.8 3.6 1.4 3.8 3.6 1.4 3.6 1.4 3.6 1.4 3.8 3.6 5.5 1.3 7.4 1.9 1.3 7.4 1.9 1.3 5.5 1.3 7.4 1.3 5.5 1.3 7.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.4 1.5	IC)         IC)         CALCITE         CALCIUM         CALCIUM CARBONATE         CALCIUM FLUORIDE         CALCIUM FLUORIDE         CALCIUM SULFATE         CAMPHENE         CAMPHORPINACONE         CARBON BLACK         CARBON BLACK         CARBON DISULPHIDE         CARBON DISULPHIDE         CARBON DISULPHIDE         CARVON         CARVON         CASEIN         CASTOR OIL         CEDRENE         CELLUOPHANE         CELLUOSE         CELLUOSE         CHLOROACETIC ACID         CHLOROACETONE         CHLOROFORM         CHLOROFORM         CHLOROFORM	$\begin{array}{c} 20.7\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $
5.1 6.3 6.6 3.1 17.4 4.6 2 5.6 4.7 7.3 7.4 9 12.4 4.8 2.5 6.9 1.7 4.3 7.4 9 12.4 4.8 2.5 12.4 3.5 - 5.0 1.14 3.0 - 4.0 2.7 - 3.0 6.9 17.4 3.8 2.3 2.6 1.3 7.4 1.4 3.0 - 4.0 2.7 - 3.0 1.74 1.4 3.8 2.3 2.6 1.3 1.4 3.8 2.3 2.6 1.3 1.4 3.8 2.3 2.6 1.3 1.4 3.8 2.3 2.6 1.3 1.4 3.8 2.3 2.6 1.3 1.4 1.4 3.8 2.3 2.6 1.3 1.4 1.4 1.4 3.8 1.4 1.4 1.4 3.8 1.4 1.4 1.4 1.5 1.4 1.5 1.4	BUTYRONITRILE [C] [CALCITE CALCIUM CALCIUM CARBONATE CALCIUM FLUORIDE CALCIUM FLUORIDE CALCIUM SULFATE CAMPHENE CAMPHENE CAMPHENE, CRYSTAL CAMPHENE, CRYSTAL CAMPHORPINACONE CARBON BLACK CARBON BLACK CARBON DISULPHIDE CARBON DISULPHIDE CARBON DISULPHIDE CARBON DISULPHIDE CARBON DISULPHIDE CARBON DISULPHIDE CARBON DISULPHIDE CARBON TETRACHLORIDE CARVOL CARVOL CASTOR OIL CEDRENE CELLULOID CELLULOSE CELLULOSE CELLULOSE CELLULOSE CELLULOSE CELLULOSE CELLULOSE CELLULOSE CELLULOSE CHLOROACETICACID CHLOROACETONE CHLOROFORM CHLOROFORM	$\begin{array}{c} 20.7\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $
5.1 6.3 6.6 3.1 17.4 4.6 2 5.6 4.7 7.3 3 7.4 9 12.4 4.8 2.6 3.5 - 5.0 11 8 5.1 4.8 2.6 3.5 - 5.0 11 8 5.1 6.9 9 12.4 4.8 2.6 3.5 - 5.0 11 8 5.1 6.9 9 9.1 17.4 4.8 2.6 3.5 - 5.0 11 1.4 4.8 2.6 3.5 - 5.0 11 1.4 4.8 2.6 3.5 - 5.0 11 1.4 4.8 2.6 3.5 - 5.0 1.1 1.4 4.8 2.6 3.5 - 5.0 1.1 1.4 4.8 2.6 3.5 - 5.0 1.1 1.4 4.8 2.6 3.5 - 5.0 1.1 1.4 4.8 2.6 3.5 - 5.0 1.1 1.4 4.8 2.6 3.5 - 5.0 1.1 1.4 4.8 5.1 1.4 4.8 5.1 1.4 1.4 4.8 5.1 1.4 4.8 5.1 1.4 3.0 5.1 1.4 4.8 5.1 1.4 3.0 7.4 1.4 4.8 5.1 1.4 3.0 7.4 1.4 3.0 7.4 3.0 7.4 1.4 4.8 5.1 1.4 3.0 7.4 1.0 7.3 3.0 7.4 1.4 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2	BUTYRONITRILE [C] [C] CALCITE CALCIUM CALCIUM CARBONATE CALCIUM FLUORIDE CALCIUM FLUORIDE CALCIUM SULFATE CAUDIUM SULFATE CAMPHER, CRYSTAL CAMPHER, CRYSTAL CARBON BLACK CARBON BLACK CARBON DISULPHIDE CARBON TETRACHLORIDE CARBON TETRACHLORIDE CASEIN CASTOR OIL CEDENE CELLOPHANE CELLULOSE CELLULOSE CELLULOSE CELLULOSE CELLULOSE CELLULOSE CHLOROACETIONE CHLOROACETONE CHLOROFORM CHLOROFORM CHLOROHEPTANE CHLOROMAPHTHAI ENE	$\begin{array}{c} 20.7\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $
5.1 6.3 6.6 3.1 1.7.4 4.6 2 5.6 4.7 7.3 7.4 9 12.4 4.8 2.6 3.5 - 5.0 11 5.8 11.4 3.0 - 4.0 2.7 - 3.0 6.9 17.8 3.8 2.6 13 7.4 19 3.8 5.1 13.8 3.5 5.1 13.8 13.8 5.1 13.8	BUTYRONITRILE [C] CALCITE CALCIUM CALCIUM CARBONATE CALCIUM FLUORIDE CALCIUM FLUORIDE CALCIUM SULFATE CALCIUM SULFATE CAMPHERE CAMPHER, CRYSTAL CAMPHER, CRYSTAL CAMPHER, CRYSTAL CAMPHORPINACONE CARBON BLACK CARBON BLACK CARBON DISULPHIDE CARBON DISULPHIDE CARBON DISULPHIDE CARBON DISULPHIDE CARBON TETRACHLORIDE CARBON TETRACHLORIDE CARSTOR OIL CASEIN CASTOR OIL CELLUOD CELLUOD CELLUCOSE CELLUCOSE NITRATE CEMNT CHARCOAL CHLOROACETIC ACID CHLOROACETIC ACID CHLOROFORM CHLOROHEPTANE CHLOROHEPTANE CHLOROHEPTANE	$\begin{array}{c} 20.7\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $
5.1 6.3 6.6 3.1 7.7 6.9 9.1 17.4 4.6 2 5.6 4.7 7.3 4.3 7.4 9 12.4 4.8 2.6 3.5 - 5.0 11 5.8 11.4 3.0 - 4.0 6.9 17.8 3.8 2.6 3.5 7.7 3.0 4.8 3.8 3.2 6 5.8 11.4 3.0 - 4.0 6.9 12.4 4.8 2.6 3.5 7.7 5.8 11.4 3.0 - 4.0 6.9 12.4 4.8 2.6 11.4 5.8 11.4 3.0 - 4.0 6.9 12.4 4.8 2.6 11.4 5.8 11.4 5.8 11.4 5.8 11.4 5.8 11.4 5.8 11.4 5.8 11.4 5.8 11.4 5.8 11.4 5.8 11.4 5.8 11.4 5.8 11.4 5.8 11.4 5.8 11.4 3.0 - 4.0 6.9 11.4 5.8 11.4 3.0 - 4.0 6.9 11.4 5.8 11.4 3.0 - 4.0 6.9 11.4 5.8 11.4 3.0 - 4.0 6.9 11.4 3.8 3.5 5.5 11.4 3.8 3.2 6.9 17.4 1.4 3.8 3.8 3.2 6.9 17.4 1.4 3.0 5.7 5.0 17.5 5.0 17.5 5.8 11.4 3.8 5.5 5.0 17.8 3.8 3.2 5.5 5.0 17.8 3.8 5.5 5.0 17.8 3.8 5.5 5.0 17.8 3.8 5.5 5.0 17.8 3.8 5.5 5.0 11.4 3.8 5.5 5.0 17.8 3.8 5.5 5.0 11.4 5.8 5.5 5.0 11.4 5.8 5.5 5.0 11.4 5.8 5.5 11.4 5.8 5.5 5.0 11.4 5.8 5.5 5.0 11.4 5.8 5.5 5.0 11.4 5.8 5.5 5.0 11.4 5.8 5.5 5.0 11.4 5.8 5.5 5.0 11.4 5.8 5.5 5.0 13 7.4 13.5 5.13 1.4 5.5 5.13 1.4 5.5 5.13 1.4 5.5 5.13 1.4 5.5 5.13 1.4 5.5 5.10 1.4 5.5 5.10 5.5 5.10 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.	BUTYRONITRILE [C] CALCITE CALCIUM CALCIUM CARBONATE CALCIUM FLUORIDE CALCIUM FLUORIDE CALCIUM SULFATE CALCIUM SULFATE CAMPHER, CRYSTAL CAMPHER, CRYSTAL CAMPHORPINACONE CARPHORPINACONE CARBON BLACK CARBON DISULPHIDE CARBON DISULPHIDE CARBON DISULPHIDE CARBON DISULPHIDE CARBON DISULPHIDE CARBON DISULPHIDE CARBON SULFATE CARSON DISULPHIDE CARBON DISULPHIDE CARBON SULFATE CARDON BLACK CARSON DISULPHIDE CARBON SULFATE CARSON DISULPHIDE CARBON SULFATE CARSON DISULPHIDE CARDON E CARVOL CASEIN CASTOR OIL CELLUCISE CELLUCISE CELLUCISE CELLUCISE CELLUCISE CHLOROACETIC ACID CHLOROACETIC ACID CHLOROFORM CHLOROHETANE CHLOROHPTANE CHLOROMAPHTHALENE CHLOROPHETANE	$\begin{array}{c} 20.7\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $
5.1 6.3 6.6 3.1 5.7 6.9 9.1 17.4 4.6 2 5.6 4.7 7.3 7.4 9 12.4 8.26 3.5 - 5.0 11.4 3.0 - 4.0 2.7 - 3.0 6.9 17.4 3.0 - 4.0 2.7 - 3.0 17.4 3.8 2.3 2.6 13.8 2.3 2.6 13.8 3.8 2.3 2.6 13.8 3.8 2.3 2.6 13.8 3.8 2.3 2.6 13.8 3.8 2.3 2.6 13.8 3.8 2.3 2.6 13.8 3.8	BUTYRONITRILE [C] [C] CALCITE CALCIUM CALCIUM CARBONATE CALCIUM FLUORIDE CALCIUM FLUORIDE CALCIUM SULFATE CAUPHENE CAMPHENE CAMPHENE, CRYSTAL CAMPHENE, CRYSTAL CAMPHENE, CRYSTAL CAMPHORPINACONE CARBON BLACK CARBON BLACK CARBON DISULPHIDE CARBON DISULPHIDE CARBON DISULPHIDE CARBON DISULPHIDE CARBON DISULPHIDE CARBON DISULPHIDE CARBON DISULPHIDE CARBON TETRACHLORIDE CARVOL CARVOL CARVOL CASTOR OIL CEDRENE CELLOPHANE CELLULOSE CELLULOSE CELLULOSE CELLULOSE CELLULOSE CHLOROACETICACID CHLOROACETONE CHLOROCYCLOHEXANE CHLOROPHETANE CHLOROMPHETANE CHLOROCTONE	$\begin{array}{c} 20.7\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $

DIEL

46	
	CHOLESTERIN
4.3	CHROME, ORE
4.4	CHROMYL CHLORIDE
6	
20	CIS-3-HEXENE
4.5	
.0 - 0.0 4 6	
2.6	COAL POWDER FINE
7.6	COCAINE
3.1	COKE
7.1	COMPOUND
5.4	COPPER CATALYST
5.8	COPPER OLEATE
7.2	COPPER OXIDE
3.53	CORDERITE
4.1	CORN
4.4	COTTON
5.3	COTTON SEED OIL
3.7	CREOSOL
5.8	
9.8	
3.1	
3.0	CUMENE
11	
5.1	CUPRIC OLEATE
4.2	
5.21	CYANOACETIC ACID
17.8	CYANOETHYL ACETATE
18.5	CYANOGEN
12	CYCLOHEXANE
10	CYCLOHEXANE, LIQUID
9.6	CYCLOHEXANOL
4	CYCLOHEXANONE
3.1	CYCLOHEXENE
5.1	CYCLOPENTANE
5.4	CYCOLIC NITRILE
13.4	CYMENE
3	
20.7	D-COCAINE DECANAL
0	DECANE
3	DECANO
9.1	DECYLENE
7.4	DECYNE
7.4	DEUTERIUM OXIDE
11.8	DEXTRIN
5.6	
0.0	DIACETOXYBUTANE
2.7	DIACETOXYBUTANE DIALLYL SULFIDE
2.7 ) - 11.0	DIACETOXYBUTANE DIALLYL SULFIDE DIAMOND
2.7 ) - 11.0 3.6	DIACETOXYBUTANE DIALLYL SULFIDE DIAMOND DIBENZYL SEBACATE
2.7 ) - 11.0 3.6 3.2	DIACETOXYBUTANE DIALLYL SULFIDE DIAMOND DIBENZYL SEBACATE DIBENZYLAMINE
2.7 ) - 11.0 3.6 3.2 .8 - 7.0	DIACETOXYBUTANE DIALLYL SULFIDE DIAMOND DIBENZYL SEBACATE DIBENZYLAMINE DBUTYL PHTHALATE
2.7 ) - 11.0 3.6 3.2 .8 - 7.0 .5 - 3.0	DIACETOXYBUTANE DIALLYL SULFIDE DIAMOND DIBENZYL SEBACATE DIBENZYLAMINE DIBUTYL PHTHALATE DIBUTYL SEBACATE DISDETYL AUNS
2.7 ) - 11.0 3.6 3.2 .8 - 7.0 .5 - 3.0 2.6	DIACETOXYBUTANE DIALLYL SULFIDE DIAMOND DIBENZYL SEBACATE DIBUTYL PHTHALATE DIBUTYL SEBACATE DIBUTYL SEBACATE DIBUTYL SEBACATE DIBUTYL SEBACATE
2.7 ) - 11.0 3.6 3.2 .8 - 7.0 .5 - 3.0 2.6 2.2 2.9	DIACETOXYBUTANE DIALLYL SULFIDE DIAMOND DIBENZYL SEBACATE DIBENZYLAMINE DIBUTYL PHTHALATE DIBUTYL SEBACATE DIBUTYL SEBACATE DIBERNZYLAMINE DINITROGEN OXIDE DIOCTYL PHTHALATE
2.7 2.7 3.6 3.2 .8 - 7.0 .5 - 3.0 2.6 2.2 2.9 18.4	DIACETOXYBUTANE DIALLYL SULFIDE DIAMOND DIBENZYL SEBACATE DIBENZYLAMINE DIBUTYL PHTHALATE DIBUTYL SEBACATE DIEBENZYLAMINE DINITROGEN OXIDE DIOCTYL PHTHALATE DIOXAME (1.4)
2.7 2.7 3.6 3.2 8 - 7.0 5 - 3.0 2.6 2.2 2.9 18.4 11 2	DIACETOXYBUTANE DIALUYL SULFIDE DIAMOND DIBENZYL SEBACATE DIBENZYLAMINE DIBUTYL PHTHALATE DIBUTYL SEBACATE DIEBENZYLAMINE DINITROGEN OXIDE DIOCTYL PHTHALATE DIOXANE (1,4) DIPENTENE
2.7 2.7 3.6 3.2 8 - 7.0 5 - 3.0 2.6 2.2 2.9 18.4 11.2 1 - 6.8	DIACETOXYBUTANE DIALUYL SULFIDE DIAMOND DIBENZYL SEBACATE DIBENZYLAMINE DIBUTYL PHTHALATE DIBUTYL SEBACATE DIEBENZYLAMINE DINITROGEN OXIDE DIOCTYL PHTHALATE DIOCTYL PHTHALATE DIOXANE (1,4) DIPENTENE DIPHENTYMETHANE
2.7 2.7 3.6 3.2 8.8 - 7.0 5.5 - 3.0 2.6 2.2 2.9 18.4 11.2 1.1 - 6.8 2.6	DIACETOXYBUTANE DIALUYL SULFIDE DIAMOND DIBENZYL SEBACATE DIBENZYLAMINE DIBUTYL PHTHALATE DIBUTYL SEBACATE DIEBENZYLAMINE DINITROGEN OXIDE DIOCTYL PHTHALATE DIOXANE (1.4) DIPENTENE DIPHENTYMETHANE DIPHENYL
2.7 )- 11.0 3.6 3.2 .8 - 7.0 2.6 2.2 2.9 18.4 11.2 .1 - 6.8 2.6 3.2	DIACETOXYBUTANE DIALUYL SULFIDE DIAMOND DIBENZYL SEBACATE DIBUTYL PHTHALATE DIBUTYL SEBACATE DIBUTYL SEBACATE DIEBENZYLAMINE DINITROGEN OXIDE DIOCTYL PHTHALATE DIOCTYL PHTHALATE DIOXANE (1,4) DIPENTENE DIPHENTYMETHANE DIPHENYL DIPHENYL DIPHENYL ETHER
2.7 2.7 3.6 3.2 8 - 7.0 2.6 2.2 2.9 18.4 11.2 1 - 6.8 2.6 3.2 .2 - 6.4	DIACETOXYBUTANE DIALLYL SULFIDE DIAMOND DIBENZYL SEBACATE DIBUTYL SEBACATE DIBUTYL SEBACATE DIBUTYL SEBACATE DIEBENZYLAMINE DINITROGEN OXIDE DIOCTYL PHTHALATE DIOCTYL PHTHALATE DIOXANE (1,4) DIPENTENE DIPHENTYMETHANE DIPHENYL ETHER DIPHENYL AMINE
2.7 2.7 3.6 3.2 8 - 7.0 5 - 3.0 2.6 2.2 2.9 18.4 11.2 2.9 18.4 11.2 2.6 3.2 2.9 18.4 3.2 2.6 3.2 2.9 18.4 3.2 2.6 3.2 2.9 18.4 3.2 2.6 3.2 2.9 18.4 3.2 2.9 18.4 3.2 2.9 18.4 3.2 3.2 3.0 2.6 3.2 2.9 18.4 3.2 3.2 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	DIACETOXYBUTANE DIALLYL SULFIDE DIAMOND DIBENZYL SEBACATE DIBENZYL AMINE DIBUTYL PHTHALATE DIBUTYL SEBACATE DIEBENZYLAMINE DINITROGEN OXIDE DIOCTYL PHTHALATE DIOXANE (1,4) DIPENTENE DIPHENYL METHANE DIPHENYL ETHER DIPHENYL AMINE DIPHENYL AMINE DIPROPYL KETONE
2.7 2.7 3.6 3.2 8 - 7.0 5 - 3.0 2.6 2.2 2.9 18.4 11.2 2.1 - 6.8 3.2 2.2 - 6.4 3.3 - 11 .2 - 7.5	DIACETOXYBUTANE DIALUYL SULFIDE DIAMOND DIBENZYL SEBACATE DIBENZYL AMINE DIBUTYL PHTHALATE DIBUTYL SEBACATE DIEBENZYLAMINE DINITROGEN OXIDE DIOCTYL PHTHALATE DIOXANE (1,4) DIPENTENE DIPHENTYMETHANE DIPHENTYMETHANE DIPHENYL ETHER DIPHENYL KETONE DIPROPYL KETONE DIPROPYL KETONE
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2.7 3.6 3.2 8 7.0 5 3.0 2.6 2.2 2.9 18.4 11.2 2.9 18.4 11.2 2.9 18.4 3.2 .2 - 6.4 3.3 - 11 .2 - 7.5 6.4 .5 - 2.1	DIACETOXYBUTANE DIALUYL SULFIDE DIAMOND DIBENZYL SEBACATE DIBENZYL AMINE DIBUTYL PHTHALATE DIBUTYL PHTHALATE DIBERZYLAMINE DIDEBENZYLAMINE DIOCTYL PHTHALATE DIOCTYL PHTHALATE DIOCTYL PHTHALATE DIOCTYL PHTHALATE DIOCTYL PHTHALATE DIOCTYL PHTHALATE DIPENTYL PHTHALATE DIPHENYL PHTHANE DIPHENYL DIPHENYL ETHER DIPHENYL AMINE DIPHENYL AMINE DIPROPYL KETONE DIPROPYL KETONE DIPROPYLAMINE DOLOMITE DOWTHERM
2.7 2.7 3.6 3.2 8.70 5.5-30 2.6 2.2 2.9 18.4 11.2 2.6 3.2 1.4 3.3-11 2.2-6.4 3.3-11 2.2-6.4 3.3-11 2.4 5.5-2.1 2.1 2.1 2.1 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2	DIACETOXYBUTANE DIALUYL SULFIDE DIAMOND DIBENZYL SEBACATE DIBENZYL SEBACATE DIBUTYL PHTHALATE DIBUTYL SEBACATE DIBUTYL SEBACATE DIBUTYL SEBACATE DIBUTYL SEBACATE DIBENZYLAMINE DIPENTENE DIPHENYL PHTHALATE DIPHENYL PHTHALATE DIPHENYL PHTHALATE DIPHENYL PHTHALATE DIPHENYL PHTHALATE DIPHENYL STHER DIPHENYL S
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2.7 2.7 11.0 3.6 3.2 8.8 - 7.0 5 3.0 2.6 2.2 2.9 4.1 11.2 1 6.8 2.6 2.2 2.9 4.1 11.2 1 6.8 2.6 2.2 2.9 4.1 1.2 .1 - 6.8 2.6 2.2 2.9 4.1 1.2 .1 - 6.8 2.6 3.3 - 11 2.2 2.2 2.9 4.1 1.2 .1 - 6.8 2.6 2.2 2.9 4.1 1.2 .1 - 6.8 2.6 2.2 2.9 4.1 1.2 .2 - 6.4 3.3 - 11 .2 - 7.5 6.4 .5 - 2.0 1.2 - 7.5 6.4 .5 - 2.1 2.2 2.2 2.2 2.9 1.1 2.6 2.2 2.9 1.1 2.6 2.2 2.9 1.1 2.6 2.2 2.9 1.1 2.6 2.6 2.2 2.9 1.1 2.6 2.6 2.2 2.9 1.1 2.6 2.2 2.2 2.9 6.4 3.3 - 11 .2 - 7.5 6.4 .5 - 2.01 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.	DIACETOXYBUTANE DIALUYL SULFIDE DIAMOND DIBENZYL SEBACATE DIBUTYL PHTHALATE DIBUTYL SEBACATE DIBUTYL SEBACATE DIEBENZYLAMINE DIOTYL PHTHALATE DIOTYL PHTHALATE DIOTYL PHTHALATE DIOTYL PHTHALATE DIOTYL PHTHALATE DIOTYL PHTHALATE DIPENTENE DIPHENYL BTHER DIPHENYL BTHER DIPHENYL AMINE DIPHENYL AMINE DIPHENYL AMINE DIPROPYL KETONE DIPROPYLAMINE DOLOMITE DOWTHERM [E] EBONITE EMERY SAND
2.7 2.7 1.0 3.6 3.2 .8 - 7.0 2.6 2.2 2.9 1.4 11.2 1 - 6.8 2.6 3.3 - 11 .2 - 7.5 6.4 .5 - 2.1 2 - 1.6 .2 - 2.1 2 - 2.1	DIACETOXYBUTANE DIALUYL SULFIDE DIAMOND DIBENZYL SEBACATE DIBENZYL SEBACATE DIBUTYL PHTHALATE DIBUTYL PHTHALATE DIBUTYL SEBACATE DIBUTYL SEBACATE DIDEDENZYLAMINE DIDEDENZYLAMINE DIOCTYL PHTHALATE DIOXANE (14) DIPENTENE DIPHENYL ETHER DIPHENYL ETHER DIPHENYL ETHER DIPHENYL KETONE DIPROPYL KETONE DIPROPYL KETONE DIPROPYL KETONE DIPROPYL MINE DOLOMITE DOLOMITE EBONITE EMERY SAND EPICHLORCHYDRIN
2.7 2.7 1.0 3.6 3.2 8.700 2.6 2.2 2.9 1.2 2.9 1.2 2.6 3.2 2.9 1.1 2.6 3.2 2.9 1.1 2.6 3.2 2.9 1.1 2.6 3.2 2.9 1.1 2.6 3.2 2.9 1.1 2.6 3.2 2.9 1.1 2.6 3.2 2.9 1.1 2.6 3.2 2.9 1.1 2.6 3.2 2.9 1.1 2.6 3.2 2.9 1.1 2.6 3.2 2.9 1.1 2.6 3.2 2.9 1.1 2.6 3.2 2.9 1.1 2.6 3.2 2.9 1.1 2.6 3.2 2.9 1.1 2.6 3.2 2.9 1.1 2.7 2.9 1.1 2.7 5.6 3.2 2.2 2.9 1.1 2.7 5.6 3.3 - 1.1 2.7 5.6 4.5 - 2.1 2.7 5.6 4.5 - 2.1 2.7 5.6 4.5 - 2.1 2.1 2.9 5.6 4.5 - 2.1 2.1 2.1 2.7 5.6 4.5 - 2.1 2.1 2.1 2.7 5.6 4.5 - 2.1 2.1 2.1 2.1 2.1 2.7 5.6 4.5 - 2.1 2.1 2.1 2.1 2.1 2.7 5.6 4.5 5.7 2.1 2.1 2.1 2.7 5.6 4.5 5.7 2.1 2.7 5.6 4.5 5.7 2.1 2.7 5.6 4.5 5.7 2.1 2.7 5.6 4.5 5.7 5.7 5.6 5.7 5.7 5.7 5.7 5.7 5.7 5.7 5.7	DIACETOXYBUTANE DIALUYL SULFIDE DIAMOND DIBENZYL SEBACATE DIBENZYL SEBACATE DIBUTYL PHTHALATE DIBUTYL PHTHALATE DIBUTYL SEBACATE DIBUTYL SEBACATE DIDERENZYLAMINE DIDERENZYLAMINE DIOXANE (1,4) DIPENTENE DIPHENTYMETHANE DIPHENYL ETHER DIPHENYL ETHER DIPHENYL KETONE DIPHENYL KETONE DIPROPYL AMINE DIPROPYL KETONE DIPROPYLAMINE DOLOMITE DOWTHERM [E] EBONITE EMERY SAND EPICHLORCHYDRIN EPOXY RESIN (CAST)
2.7 2.7 3.6 3.2 8-7.0 2.6 2.2 2.9 18.4 11.2 1-6.8 2.6 3.2 2.9 18.4 2.6 3.2 2.9 18.4 2.6 3.2 2.9 18.2 2.7 5.6 2.2 2.9 18.2 2.7 5.6 2.2 2.9 18.2 2.7 5.6 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2	DIACETOXYBUTANE DIALLYL SULFIDE DIAMOND DIBENZYL SEBACATE DIBENZYL SEBACATE DIBUTYL PHTHALATE DIBUTYL PHTHALATE DIBUTYL SEBACATE DIDEBENZYLAMINE DIDEBENZYLAMINE DIOCTYL PHTHALATE DIOCTYL PHTHALATE DIOCTYL PHTHALATE DIOCTYL PHTHALATE DIOCTYL PHTHALATE DIOCTYL PHTHALATE DIOCTYL PHTHALATE DIOCTYL PHTHALATE DIOCTYL PHTHALATE DIOCTYL PHTHALATE DIPHENYL ETHER DIPHENYL ETHER DIPHENYL ETHER DIPHENYL KETONE DIPROPYL KETONE DIPROPYL KETONE DIPROPYLAMINE DOLOMITE DOWTHERM [E] EBONITE EMERY SAND EPICHLORCHYDRIN EPOXY RESIN (CAST) ETHYL ACETATE EUCENDO
2.7 2.7 3.6 3.2 8.70 5.30 2.6 2.2 2.9 18.4 2.6 3.2 1.1.2 16.8 2.6 3.2 2.7 6.4 3.3 - 11.2 1.2 - 7.5 6.4 52.1 21.81 2.2 2.1 2.9 8.3.2 - 7.5 6.4 52.1 27.5 6.4 52.1 27.5 6.4 53.0 53.0 6.4 55.0 6.4 55.0 7.5 6.4 55.0 7.5 6.4 55.0 7.5 6.4 55.0 7.5 6.4 55.0 7.5 6.4 55.0 7.5 6.4 55.0 7.5 6.4 55.0 7.5 6.4 55.0 7.5 6.4 55.0 7.5 6.4 55.0 7.5 6.4 55.0 7.5 6.4 55.0 7.5 6.4 55.0 7.5 6.4 55.0 7.5 6.4 55.0 7.5 6.4 55.0 7.5 6.4 55.0 7.5 6.4 5.5.5 7.5 7.5 7.5 7.5 7.5 7.5 7	DIACETOXYBUTANE DIALLYL SULFIDE DIAMOND DIBENZYL SEBACATE DIBENZYL SEBACATE DIBUTYL PHTHALATE DIBUTYL PHTHALATE DIBUTYL SEBACATE DIBERZYLAMINE DIDEBENZYLAMINE DIOCTYL PHTHALATE DIOXANE (1.4) DIPENTENE DIPHENYL PHTHALATE DIPHENYL PHTHALATE DIPHENYL PHTHALATE DIPHENYL ETHER DIPHENYL ETHER DIPHENYL AMINE DIPHENYL AND FICHLORCHYDRIN EPOXY RESIN (CAST) ETHYL ACETATE EUGENOL
2.7 2.7 3.6 3.2 8 7.0 2.6 2.2 2.9 18.4 2.2 2.9 18.4 2.2 2.9 18.4 2.2 2.9 18.4 2.6 3.2 2.7 1.4 3.3 - 11.0 2.6 3.2 2.9 18.4 2.6 3.2 2.9 18.4 2.6 3.2 2.9 18.4 2.6 3.2 2.9 18.4 2.6 3.2 2.9 18.4 2.6 3.2 2.9 18.4 2.6 3.2 2.6 3.2 2.9 18.4 2.6 3.2 2.9 18.4 2.6 3.2 2.7 6.4 3.3 - 1.1 2.8 5.5 - 3.0 2.6 3.2 2.2 2.9 18.4 2.6 3.2 2.2 2.9 18.4 2.6 3.2 2.7 6.4 3.3 - 1.1 2.9 8.3 - 1.1 2.9 1.2 - 1.81 2.9 1.81 2.9 1.81 2.2 2.9 1.2 - 1.81 2.9 3.5 - 1.81 2.9 - 1.81 2.9 - 1.83 - 2.1 2.9 - 1.81 2.9 - 1.83 - 3.5 - 3.6 - 3.5 - 3.6 - 3.5 - 3.6 - 3.5 - 3.6 - 3.6 - 3.5 - 3.6 - 3.5 - 3.6 - 3.5 - 3.6 - 3.5 - 3.6 - 3.5 - 3.5	DIACETOXYBUTANE DIALLYL SULFIDE DIAMOND DIBENZYL SEBACATE DIBENZYL SEBACATE DIBUTYL PHTHALATE DIBUTYL SEBACATE DIEBENZYLAMINE DIOTYL PHTHALATE DIOTYL PHTHALATE DIOTYL PHTHALATE DIOTYL PHTHALATE DIOTYL PHTHALATE DIOTYL PHTHALATE DIOTYL PHTHALATE DIOTYL PHTHALATE DIOTYL PHTHALATE DIOTYL PHTHALATE DIPHENYL HER DIPHENYL ETHER DIPHENYL ETHER DIPHENYL AMINE DIPHENYL AMINE DIPHOPYL KETONE DIPHOPYL KETONE DIPROPYLAMINE DOLOMITE DOWTHERM [E] EBONITE EMERY SAND EPICHLORCHYDRIN EPOXY RESIN (CAST) ETHYL ACETATE EUGENOL [F]
2.7 2.7 1.10 3.6 3.2 8 7.0 2.6 2.2 2.9 4.1 1.2 1 6.8 2.6 2.2 2.9 4.1 1.2 .1 - 6.8 2.6 3.3 - 11 .2 - 7.5 6.4 .5 - 2.1 29.8 1.2 21 29.8 5.6 4.8 5.5 3.3 5 5 5 5 5 5 5 5 5 5 5 5 5	DIACETOXYBUTANE DIALUYL SULFIDE DIAMOND DIBENZYL SEBACATE DIBENZYL SEBACATE DIBUTYL PHTHALATE DIBUTYL SEBACATE DIEBENZYLAMINE DIOTYL PHTHALATE DIOTYL PHTHALATE DIOTYL PHTHALATE DIOTYL PHTHALATE DIOTYL PHTHALATE DIOTYL PHTHALATE DIOTYL PHTHALATE DIOTYL PHTHALATE DIPENTYL DIPHENYL ETHER DIPHENYL ETHER DIPHENYL ETHER DIPHENYL ETHER DIPHENYL AMINE DIPROPYL KETONE DIPROPYL KETONE DIPROPYLAMINE DOLOMITE DOLOMITE EMERY SAND EPICHLORCHYDRIN EPOXY RESIN (CAST) ETHYL ACETATE EUGENOL [F] FERRIC OLEATE FERROCHROMIUM
2.7 2.7 2.7 3.6 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2	DIACETOXYBUTANE DIALLYL SULFIDE DIAMOND DIBENZYL SEBACATE DIBENZYL SEBACATE DIBUTYL PHTHALATE DIBUTYL PHTHALATE DIBUTYL SEBACATE DIDEDENZYLAMINE DIDEDENZYLAMINE DIDEDENZYLAMINE DIOCATL PHTHALATE DIOXANE (1,4) DIPENTENE DIPHENYL ETHER DIPHENYL ETHER DIPHENYL ETHER DIPHENYL ETHER DIPROPYL KETONE DIPROPYL KETONE DIPROPYL KETONE DIPROPYL KETONE DIPROPYL AMINE DOLOMITE BOWTHERM [E] EBONITE EMERY SAND EPICHLORCHYDRIN EPOXY RESIN (CAST) ETHYL ACETATE EUGENOL [F] FERRIC OLEATE FERROCHROMIUM FERROMANGANFSF
2.7 2.7 2.7 3.6 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2	DIACETOXYBUTANE DIALLYL SULFIDE DIAMOND DIBENZYL SEBACATE DIBUTYL PHTHALATE DIBUTYL PHTHALATE DIBUTYL SEBACATE DIBUTYL SEBACATE DIDEDENZYLAMINE DIDEDENZYLAMINE DIOCTYL PHTHALATE DIOXANE (1,4) DIPENTENE DIPHENTYMETHANE DIPHENYL ETHER DIPHENYL ETHER DIPHENYL ETHER DIPHENYL KETONE DIPROPYL KETONE DIPROPYLAMINE DOLOMITE DOUMITE DOUMITE EMERY SAND EPICHLORCHYDRIN EPOXY RESIN (CAST) ETHYL ACETATE EUGENOL [F] FERRIC OLEATE FERROMANGANESE FERROUS OXIDE

2.86	FLOUR	2.5 - 3.0
7.7 - 8.0	FLY ASH	1.5 - 2.6
2.6	FORMALIN	23
16.9	FORMAMIDE	84
2.1	FORMIC ACID	58
1.8 - 2.8	FORSTERITE	6.2
13.4	FREON 12	2.4
2.0 - 3.0	FULLER'S EARTH	1.8 - 2.2
2.0 - 4.0	FURAN	3
3.1		42
1.1 - 2.2	FURFURALDEHYDE	41
3.0		2
0.0 - 0.2		2 1
2.0 19.1	GLASS, BEAD	20.25
25-54		2.0 - 2.3
5.0 - 10	GLYCOL	47 - 00
13-14		27
3.1	GRAIN	3.0 - 8.0
10.6	GRAPHITE	12.0-15.0
9.0-11.0	GYPSUM	2.5 - 6.0
28	[H]	
3.5 - 4.7	HAGEMANNIE ESTER	10.6
11	HALOWAX	4.5
2.4	HEAVY OIL	3
10.7	HEPTANE	1.9
2.8	HYDRAZINE	52
18.1	HYDROCHLORIC ACID	4.0 - 12.0
33	HYDROCYANIC ACID	2.3
19.3	HYDROGEN IODIDE	2.9
2.6	HYDROGEN BROMIDE	3.8
2	HYDROGEN CHI ORIDE	4.6
18.5		95.4
10.0		11 0-17 0
18.2		84.2
10.2		6 Q
10.3		52.0
2	III III	52.9
21		60 70
2.3		6.0 - 7.0
2.4		7.0
3.1		11
8.1		14.2
2	ISO-BUTYL ALCOHOL	18.7
8.1		18.3
2.7	ISO-PROPYL BENZENE	2.4
2.2	[J]	
78.3	JET FUEL (JP4)	1.7
2.2 - 2.4	[K]	
6.6	KENTWAX	6.5 - 7.5
4.9	KEROSENE	1.8
10	KYNAR	2
4.6	[L]	
3.6	LACTIC ACID	22
6.4	LACTRONITRILE	38.4
4.5	LEAD OXIDE	25.9
3.6	LEAD SULFATE	14.3
1.6	LIME	2.2 - 2.5
5.1		2.3
2.2	LINOLEIC ACID	2.9
2.3	LINSEED OIL	3.2 - 3.5
2.6	[M]	
2.53	MAGNESIUM OXIDE	9.7
3.9	MAGNESIUM SULFATE	8.2
3.3	MALACHITE	7.2
12.6	MALONIC NITRILE	47
2.9	MANDELONITRILE	17
6.8 - 8.0	MANGANESE DIOXIDE	5.0 - 5.2
3.4	MANNITOL	3
	MARGARINE, LIQUID	2.8 - 3.2
2.5 - 2.9	MELAMINE RESIN	4.7 - 10.9
16.5	MERCURY CHLORIDE	7.0-14.0
22.9	MERCURY DIETHYL	2.3
3.6	MESITYL OXIDE	15.4
6	MESITYLENE	2.4
6.1	MESITYLENE	3.4
	METHANOL	32.6
2.6	METHOXYBENZENE	4.3
1.5 - 1.8	METHOXYPHENOL	11
5.0 - 5.2	METHOXYTOLUENE	3.5
14.2	2-METHYL-1-PROPANOL	17.7
14.2	METHYL ACETATE	6.7

METHYL ALCOHOL METHYL ETHYL KETONE METHYL P-TOLUATE METHYL PROPIONATE METHYL SALICYLATE METHYL THIOCYANATE METHYL VALERATE METHYLAMINE METHYLANILINE METHYLBENZYLAMINE METHYLCYLOPENTANE METHYLENE IODIDE METHYLETHER, LIQUID METHYLHEXANE METHYLISOCYANATE METHYLOCTANE METHYLPYRIDINE (2) MICA MICANITE MINERAL OIL MORPHOLINE [N] NAPHTHY ETHYL ETHER NAPTHALENE NAPTHONITRILE NEOPRENE NITROANISOLE NITROBENZENE NITROCELLULOSE NITROETHANE NITROGLYCERIN NITROMETHANE NITROTOLUENE NITROUS OXIDE NONANE NYLON NYLON RESIN [0] OIL, ALMOND OIL, COTTON SEED OIL, GRAPESEED OIL, LEMON OIL, LINSEED OIL, OLIVE OIL, PARAFFIN OIL, PEANUT OIL, PETROLEUM OIL, PYRANOL OIL, SESAME OIL, SPERM OIL, TERPENTINE OIL, TRANSFORMER OLEIC ACID OPAL WAX [P] PAINT PAPER (DRY) PARAFFIN PARAFFIN OIL PARALDEHYDE PARAWAX PARRAFIN CHLORIDE PENTACHLOROETHANE PERLITE PETROLEUM PHENATHIENE PHENETOLE PHENOL ETHER PHENOL RESIN PHENOXYACETYLENE PHENTIDINE PHENYL ACETATE PHENYL ETHER PHENYL ISOCYANATE PHENYL-1-PROPANE PHENYLACETALDEHYDE PHENYLACETIC PHENYLACETONITRILE PHENYLETHANOL PHENYLETHYL ACETATE PHENYLETHYLENE

33.1

18.4

4.3

5.4

35.9

4.3

10.5

6

4.4

2

5.1

5

1.9

30

9.8

2.1

7.3

3.2

2.5

6.4

24

35.7

19.7

19

39.4

25

1.6

2.8

3.1

2.9

2.3

3.4

3.1

3

2.1

5.3

3

3.2

2.2

2.2

2.5

3.1

2

5.0 - 8.0

1.9 - 2.5

4.6 - 4.8

2.0 - 2.3

1.3 - 1.4

2.0-2.2

13.9

2.3

3.7

2.8

4.5

9.8

4.9

4.8

7.3

6.9

3.7

8.9

1.7

4.8

3

18

13

4.5

2.4

2.2 - 4.7

4.0 - 5.0

3.0 - 5.0

2

6.0 - 9.0

6.2 - 7.5

2.6 - 3.2

1.8 - 2.6

29.4

9

PHENYLHYDRAZINE	7.2	RUBY
PHOSGENE	4.7	RUTILE
PHOSPHORUS	4.1	SAEDOL
PHOSPHORUS, KED	4.1	
PHTHALIC ACID	5.1-6.3	SALT
PINACOLIN	12.8	SAND
PINACONE	7.4	SAND (DRY)
PINE TREE RESIN	1.5-1.8	SANTOWAX
PINENE	2.7	SELENIUM
	5.9	SESAME
PLASTIC GRAIN	2.5 - 0.0	SILICA ALUMINAT
PLASTIC PELLETS	1.1-3.2	SILICA SAND
PLATINUM CATALYST	6.5 - 7.5	SILICON
POLYACETAL	3.6-3.7	SILICONE OIL
POLYACETOL RESIN	2.6-3.7	SILICONE RESIN
	3.5	SILICONE VARMI
POLYBUTYLENE	2.2-2.3	SILK
POLYCAPROLACTAM	2.0 - 2.5	SILVER BROMIDE
POLYCARBONATE	2.9-3.0	SILVER CHLORID
POLYCARBONATE RESIN	2.9 - 3.0	SILVER CYANIDE
POLYESTER RESIN	2.8 - 4.5	SLAKED LIME, PO
POLYETHER CHLORIDE	2.9	SLATE
	2.0-0.1	SOAP POWDERS
POLYMIDE	2.2-2.4	SODIUM CARBON
POLYPROPYLENE	1.5	SODIUM CARBON
POLYSTYRENE RESIN	2.4 - 2.6	SODIUM CYANID
POLYSTYROL	2.0-2,6	SODIUM DICHRO
POLYSULPHONIC ACID	2.8	SODIUM NITRATE
	1.9-2.0	SODIUM OLEATE
PORCELAIN	50-70	SODIUM PERCHL
POTASSIUM CHLORATE	5.1	SODIUM SULFIDE
POTASSIUM CHLORIDE	4.6	SOY BEANS
POTASSIUM IODIDE	5.6	STANNIC CHLOR
POTASSIUM NITRATE	5	STARCH
POTASSIUM SULFATE	5.9	STARCH, PASTE
	32	STEATITE
PROPANOL (1)	20.1	STYRENE
PROPENE	1.9	STYRENE (MODI
PROPIONALDEHYDE	18.9	STYRENE RESIN
PROPIONIC ACID	3.3	SUCCINAMIDE
	18	
PROPYL ACETATE	6.3	SUCROSE (MEAN
PROPYL ALCOHOL	21.8	SUGAR
PROPYL BENZENE	2.4	SUGAR, GRANUL
PROPYL BROMIDE	7.2	SULFUR
PROPYL BUTYRATE	4.3	SULFUR DIOXIDE
	3.4	
PROPYL NITRATE	14.2	SULFUR, POWDE
PROPYL PROPIONATE	4.7	SULFURIC ACID
PROPYL VALERATE	4	SULFURYL CHLC
PROPYLENE LIQUID	11.9	SULPHUR
PSUEDOCUMENE	2.4	SYRUP
	9.5	SYRUP WAX
PVC. POWDER	9.7	TANTALUM OXID
PYREX	4.8	TARTARIC ACID
PYREX GLASS	4.3 - 5.0	TARTARIC ACID
PYRIDINE	12.5	TEFLON
PYROCERAM	3.5-4.5	TEFLON (4F)
PYRROLE	7.5	TEFLON, FEP
QUARTZ	4.2	TEFLON, PTFE
QUINOLINE	9	TEPINEOL
[R]		TERPINENE
REBURNED LIME	2.2	TERPINEOL
REFRACTORY (CAST)	6.7	TETRABROMOET
RESORCINO	1.8 - 2.1 2 2	TETRANITPOME
RICE	3.0 - 8 0	THALLIUM CHI O
RICE BRAN	1.4 - 2.0	THINNER
ROUGE	1.5	THIOACETIC ACI
ROUGE (JEWELERS)	1.5 - 1.6	THIONYL BROMI
RUBBER	3	THIONYL CHLOR

DIELECTRIC CONSTANTS

	11.3 66-86		2.8 10.6
[S]	0.0 0.0	THUJONE	10.0
	3.1	TIN TETRACHLORIDE	2.9
EHYDE	13.9	TITANIUM DIOXIDE	110
	3.0 - 15.0	TOBACCO	40.0 - 50.0
	5	TOLUENE	2.4
	2.3	TOLUIDINE	6
	6.6 - 11.0	TOLUNITRILE	18.8
	1.8 - 2.0	TOLYL METHYL ETHER	3.5
INATE	2.0 - 3.8	TOURMALINE TRANS-3-HEXENE	6.3 2
	2.5 - 3.5	TRANSMISSION OIL	2.2
	11.0 - 12.0	TRIBROMOPROPANE	6.4
-	2.2 - 2.9	TRIBUTYLPHOSPHATE	8
SIN, LIQUID	3.5 - 5.0	TRICHLORE THYLENE	3.4
RNISH	2.8 - 3.3	TRICHLOROETHYLENE	3.4
	2.5 - 3.5	TRICHLOROPROPANE	2.4
NIDE	12.2	TRICHLOROTOLUENE	6.9
ORIDE	11.2	TRIETHYL ACONITATE	6.4
	5.6 20-35	TRIETHYL ALUMINUM	2.9
., I OWDER	6.0 - 7.5	TRIETHYLAMINE	3.2
E	9.3	TRIFLUOROACTIC ACID	39
ERS	1.2 - 1.7	TRIFLUOROTOLUENE	9.2
BONATE	8.4	TRIMETHYL BORATE	8.2
	8.4	TRIMETHYL-3-HEPTENE	2.2
HROMATE	2.9	TRIMETHYLBENZENE	2.3
RATE	5.2	TRIMETHYLBUTANE	1.9
ATE	2.7	TRIMETHYLPENTANE	2.9
CHLORATE	5.4	TRINITROBENZENE	2.2
FIDE	1.6 - 1.9		32
	2.8	TURPENTINE (WOOD)	2.2
ORIDE	3.2	TWO-DICHLOROETHANE	10.7
	3.0 - 5.0	[U]	
STE	1.7 - 1.8		2
	2.3 55-75	UREA	8.4
	2.4	UREA FORMALDEHYDE	6.4 - 6.9
ODIFIED)	2.4 - 3.8	UREA RESIN	6.2 - 9.5
SIN	2.3 - 3.4	URETHANE	3.2
E	2.9	URETHANE RESIN	6.5 - 7.1
	3.3		11.8
EAN)	3.3	VALERIC ACID	2.6
	3	VALERONITRILE	17.7
NULATED	1.5 - 2.2	VANADIUM SULFIDE	3.1
	1.6 - 1.7		2.2 - 2.9
DXIDE	3.1	VINYL ALCOHOL RESIN	2.6 - 3.5
UID	3.5	VINYL BUTYRAL	3.3 - 3.9
VDER	3.6	VINYL CHLORIDE RESIN	2.8 - 4.0
	84	VINYL ETHER	3.9
HLORIDE	10		3.0 - 4.0
			5.0
	2.5 - 2.9	WATER	80.4
[T]		WATER	88
XIDE	11.6	WAX	2.4 - 6.5
םוכ חוכ	5 35 9		3.0 - 5.0
	2	WOOD, DRY	2.0 - 6.0
	2	WOOD, WET	10.0 - 30.0
•	2.1	[X]	
FE	2.3 - 2.8	XYLENE	2.4
E	28		3.9
	2.0	[Z]	5
	2.8	ZINC OXIDE	1.7 - 2.5
OETHANE	7	ZINC SULFIDE	8.2
SILICATE	4.1		12
	2.2	ZIRCONIUM UXIDE	12.5
	3.7		5
ACID	13		
OMIDE	9.1		
ORIDE	9.3		

# **OMEGA INSIDE BACK COVER**

# **OMEGA BACK COVER**