

PRODUCT LINE

INORGANIC ACIDS
- Hydrochloric
- Chromic
- Phosphoric
- Nitric
- Sulfuric

ORGANIC ACIDS
- Acetic
- Ascorbic
- Citric
- Stearic
- Formic
- Lactic
- Lauric
- Oleic
- Oxalic

ALCOHOLS
- Butyl (Butanol)
- Cereal (Corn)
- Ethyl (Ethanol)
- Isobutyl (Isobutanol)
- Isopropyl (Isopropanol)
- Methyl (Methanol)
- Polyvinyl
- Propanetriol (Glycerin)
- Sorbitol

ALDEHYDES
- Formaldehyde
- Paraformaldehyde

AMIDES
- Amide (60/90)
- Anionic Polyacrylamide
- Cationic Polyacrylamide
- Nonionic Polyacrylamide
- Urea (Carbamide)

AMINES
- Diethanolamine
- Monoethanolamine
- Triethanolamine

BICARBONATES
- Ammonium
- Potassium
- Sodium

BIOCIDES
- Carbendazim (Fungicide)
- Isothiazolinone (CMIT/MIT)
- Methylparaben
- Propylparaben

CARBONATES
- Extra-Light Calcium
- Natural Dolomitic Calcium
- Magnesium
- Sodium (Soda Ash)

CARBOXYLATES
- Sodium Benzoate
- Sodium Citrate
- Calcium Propionate
- Potassium Sorbate
- Sodium Gluconate

WAXES
- Bee
- Liquid Wax Base
- Carnauba
- Polyethylene Microspheres
- Paraffin

KETONES
- Acetone
- Cyclohexanone
- Diacetone Alcohol
- Isophorone
- Methyl Ethyl Ketone (MEK)
- Methyl Isobutyl Ketone (MIBK)

CHLORIDES
- Calcium
- Ferric
- Aluminum Polychloride
- Potassium
- Sodium
- Zinc

AUXILIARY AGENTS
- Optical Brightener
- Dyes
- Fragrances
- Galaxolide (Fixative)
- Opalescent (Brancol)

ELEMENTS
- Activated Carbon
- Sulfur (Ventilated)
- Carbon Black
- Zinc (Ingots)

STEARATES
- Aluminum
- Calcium
- Magnesium
- Zinc

FATTY ACID ESTER
- Soy Lecithin
- Isopropyl Myristate
- Glyceryl Monostearate

ESTERS
- Amyl Acetate
- Butyl Glycol Acetate
- Butyl Acetate
- Ethyl Acetate
- Ethyl Glycol Acetate
- Methyl Salicylate

GLYCOL ETHERS
- Butyl Diglycol
- Butyl Glycol
- Ethyl Diglycol
- Ethyl Glycol

PHENOLICS
- BHT
- Phenol 92
- Crystal Phenol

FORMULATED
- Antistatic Agent
- Alkaline Detergent
- PVC Lubricant
- Masking Agents
- Printing Plate Solvent
- Dielectric Solvent
- Graphic Arts Solvent
- General-Purpose Thinner
- Duco Thinner
- Vinyl Thinner

PHOSPHATES
- Trisodium Phosphate
- Sodium Hexametaphosphate
- Sodium Tetrapyrophosphate
- Sodium Tripolyphosphate

GLYCOLS
- Diethylene
- Dipropylene
- Hexylene
- Monoethylene
- Propylene

HYPOCHLORITES
- Calcium 65%
- Sodium 10–12%

HYDROCARBONS ALIPHATIC
- Mineral Spirits
- Hexane
- Isoparaffin
- Kerosene
- Rubber Solvent

HYDROCARBONS AROMATICS
- AB-9/10
- Naphthalene
- Toluene
- Xylene

HYDROXIDES
- Ammonium
- Calcium (Hydrated Lime)
- Potassium (Potash)
- Sodium (Caustic Soda)

MINERAL OILS
- Liquid Vaseline
- Solid Vaseline

VEGETABLE OILS
- Sweet Almonds
- Argan
- Castor Oil Nº 1
- Grape Seed

OXIDES
- Titanium Dioxide
- Yellow Iron Oxide
- Black Iron Oxide
- Red Iron Oxide
- Zinc

PEROXIDES
- Peracetic Acid
- Hydrogen Peroxide

PLASTICIZERS
- Dibutyl Phthalate (DBP)
- Dioctyl Adipate (DOA)
- Dioctyl Phthalate (DOP)
- Tributoxyethyl Phosphate
- Epoxidized Soybean Oil

THICKENING POLYMERS
- Acrylics
- Carboxypolymethylene
- Carboxymethylcellulose (CMC)
- Xanthan Gum
- Hydroxyethyl Cellulose (HEC)

QUATERNARY AMMONIUM COMPOUNDS
- Alkyl Dimethyl Ammonium Chloride (Softening Agent)
- Alkyl Dimethyl Benzyl Ammonium Chloride (Bactericide)
- Cetyl Trimethyl Ammonium Chloride (Conditioner)

REAGENTS
- Nital
- Ferroxil

RESINS
- Acrylic
- Pitch
- Epoxy
- Polyethylene

SALTS
- Sodium Dichromate
- Disodium EDTA
- Tetrasodium EDTA
- Sodium Nitrate
- Sodium Nitrite
- Potassium Permanganate
- Sodium Sulfide

SILICATES
- Sodium Metasilicate
- Silica Gel
- Alkaline Sodium Silicate
- Neutral Sodium Silicate

SILICONES
- Defoamer
- Emulsion
- Fluids

CHLORINATED SOLVENTS
- Methylene Chloride
- Chloroform
- Perchloroethylene
- Trichloroethylene

SULFATES
- Aluminum
- Ammonium
- Copper
- Chromium
- Anhydrous Sodium

SULFITES
- Sodium Sulfite
- Sodium Metabisulfite

SURFACTANTS ANIONIC
- Sulfonic Acid
- Pearlescent Base
- Dioctyl Sulfosuccinate
- Sodium Lauryl Ether Sulfate
- Sodium Lauryl Sulfate

SURFACTANTS NON-IONIC
- Cetyl Alcohol
- 20-Mole Keto-Stearyl Alcohol
- 30/70 Keto-Stearyl Alcohol
- Amine Oxide
- Pearlescent Base
- Ethoxylated Nonylphenol
- Hydrogenated Castor Oil
- Sodium Ricinoleate

TERPENES
- Camphor
- D-limonene
- Menthol
- Citronella Oil
- Eucalyptus Oil
- Pine Oil
- Turpentine

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PROPERTIES OF SOLVENTS

This information is based on laboratory analyses and should not be confused with product specifications.

HIDROCARBONETOS

PRODUTO	FAIXA DE DESTILAÇÃO (760 mmHg, °C)					TAXA DE EVAPORAÇÃO	DENSIDADE		PONTO DE ANILINA °C		KAURI-BUTANOL	PARÂMETRO DE SOLUBILIDADE GLOBAL (cal/cm³)½	AROMÁTICOS + OLEFINAS (% V)(1)	SOLUBILIDADE EM ÁGUA (ppm)	ÍNDICE DE REFRAÇÃO (20 °C)	TEOR DE ENXOFRE (% P)	PRESSÃO DE VAPOR (mmHg, 20 °C)	PONTO DE FULGOR (T.A.G., °C)	LT(3) (ppm)
	PIE	10%	50%	90%	PS/PF	(Ac n-But=100)	20/4 °C	°API, 15,4 °C	–	MISTO									
ALIFÁTICOS																			
HEXANO	62	62	63	66	71	620	0,666	79,7	66	–	25	7,3	0,01	66	1,3764	0,05	133,54	-35(8)	100(4)
SOLV. P/ BORRACHA	60	71	88	113	120	320	0,680	67,1	57	–	28	7,5	2,5	75	1,3985	0,05	220,0	-7(7)	400(5)
AGUARRÁS MINERAL	155	160	165	190	198	28	0,774	51,1	58	–	32	7,9	19,0	80	1,4314	0,006	3,4	38(8)	100(4)
QUEROSENE COMUM	157	167	177	198	265	3	0,804	55,0	58	–	27	7,7	6	80	1,4344	0,003	1,05	40(8)	200(4)
HIDROGENADOS																			
CICLOHEXANO	79	–	–	–	81	425	0,777	49,6	30	–	–	7,2	0,02	<0,01	1,4230	–	95	-18,3(8)	235
ISOPARAFINA	185	–	–	–	211	<10,0	0,769	52,5	83	–	–	–	<0,01	<20	–	5	0,48	>61,0(8)	171
AROMÁTICOS																			
TOLUENO	108	–	–	–	112	224	0,860	31,4	–	0	105	8,9	>98,5	320	1,4930	0,05	22,0	4,4(8)	78
XILENO	137	–	–	–	142	79	0,866	31,2	–	0	98	8,8	>97,0	200	1,4935	0,06	6,6	31(7)	117
AB-9	155	–	–	–	174	20	0,874	30,1	–	1	92	8,7	>99,0	220	1,4983	0,07	2,02	46(8)	100(5)

OXIGENADOS

PRODUTO	FÓRMULA	TAXA DE EVAPOR. (Ac n-But=100)	FAIXA DE DESTIL. °C (760 mmHg)	RESIST. AO BLUSH 25 °C (%UR)	VISCOSID. DE SOL. DE NITROCEL.(6)	TAXA DE DILUIÇÃO			SOLUBILIDADE		PARÂMETRO DE SOLUBIL. (cal/cm³)½				PESO MOLE-CULAR	DENSI-DADE 20/20 °C	ÍND. DE REFR. n	PTO DE CONGEL. °C	PRESSÃO DE VAPOR (mmHg, 20 °C)	PTO. DE FULGOR (T.A.G., °C)	LT(3) (ppm)
						Tol.	Xil.	Nafta	Sol. em água %	Água em solu.%	Disper-são	Momento dipolar	Pontes de Hidrog.	Global							
CETONAS																					
ACETONA	CH_3COCH_3	520	55,6-56,6	20	12	4,5	–	0,7	COMPL	COMPL	7,6	5,1	3,4	9,8	58,08	0,790	1,3590	-94,7	205,60	-18(8)	780
CICLOHEXANONA	$CH_2(CH_2)_4CO$	29	153,0-157,0	92	98	6,1	4,8	1,2	2,30	8,00	8,7	3,1	2,5	9,6	98,14	0,947	1,4507	-31,0	4,00	43,5(8)	25(4)
DIACETONA ÁLCOOL	$(CH_3)_2C(OH)CH_2COCH_3$	12	135,0-175,0	76	295	3	2,3	0,5	COMPL	COMPL	7,7	4,0	5,3	10,2	116,16	0,936	1,4234	-42,8	1,01	62,2(7)	50(4)
ISOFORONA	$COCH=C(CH_3)CH_2C(CH_3)_2CH_2$	2	210,0-218,0	97	220	6,2	5,1	0,3	1,20	4,30	8,1	4,0	3,6	9,7	138,21	0,922	1,4775	-8,1	0,20	96,1(7)	5(4)
METIL ETIL CETONA	$CH_3COC_2H_5$	340	78,0-81,0	45	20	4,3	–	0,9	27,0	12,50	7,8	4,4	2,5	9,3	72,10	0,806	1,3790	-86,0	72,0	-3,9(7)	155
METIL ISOBUTIL CETONA	$CH_3COCH_2CH(CH_3)_2$	155	114,0-117,0	78	38	3,5	3,2	1,0	1,90	1,60	7,5	3,0	2,0	8,3	100,16	0,798	1,3960	-84,0	15,70	14(8)	50(4)
ÁLCOOIS																					
N-BUTANOL	C_4H_9OH	46,0	116,0-119,0	–	INSOLÚVEL	–	–	–	9,0	20,10	7,8	2,8	7,7	11,3	74,12	0,810	1,3970	-89,0	4,50	37,0(8)	40
ÁLCOOL ANIDRO ETÍLICO	C_2H_5OH	150,0	78,3-78,5	–	INSOLÚVEL	–	–	–	COMPL	COMPL	7,7	4,3	9,5	13,0	46,07	0,790	1,3590	-114,0	40,00	15,6(7)	780
ISOBUTANOL	$CH_3CH(CH_3)CH_2OH$	80,0	106,9-108,9	–	INSOLÚVEL	–	–	–	9,50	16,90	7,4	2,8	7,8	11,1	74,12	0,802	1,3940	-108,0	8,80	31,0(7)	40
ISOPROPANOL	$(CH_3)_2CHOH$	135,0	81,5-83,0	–	INSOLÚVEL	–	–	–	COMPL	COMPL	7,7	3,0	8,0	11,5	60,09	0,785	1,3750	-87,9	33,33	12,0(8)	310
METANOL	CH_3OH	181,0	64,0-65,0	–	25	2,2	–	0,5	COMPL	COMPL	7,4	6,0	10,9	14,5	32,04	0,793	1,3260	-97,8	126	12(8)	156
N-PROPANOL	C_3H_7OH	89,0	96,0-98,0	–	–	–	–	–	COMPL	COMPL	7,8	3,3	8,5	12,0	60,09	0,803	1,3830	-127,0	10,00	29,0(7)	200(4)
ÉSTERES																					
ACETATO DE AMILA	$CH_3COOC_5H_{11}$	45,0	140,0-150,0	91	65	2,3	–	1,3	0,20	0,90	7,5	1,6	3,4	8,4	130,19	0,873	1,4010	-100,0	3,98	38,0(8)	100(4)
ACETATO DE N-BUTILA	$CH_3COOC_4H_9$	100,0	124,0-127,0	83	49	2,7	2,7	1,4	0,70	1,60	7,7	1,8	3,1	8,5	116,16	0,883	1,3920	-77,0	8,52	22,0(8)	150(4)
ACETATO DE BUTIL GLICOL	$CH_3COOC_2H_4OC_4H_9$	3,7	188,0-192,0	96	188	1,8	–	1,2	1,50	1,70	7,0	3,9	3,8	8,9	60,22	0,941	1,4130	-64,6	0,22	84(8)	150(4)
ACETATO DE ETILA	$CH_3COOC_2H_5$	430,0	76,0-78,0	39	36	3,1	–	1,1	8,00	3,30	7,7	2,6	3,5	8,8	88,10	0,900	1,3700	-83,6	73,70	-4(8)	310
ACETATO DE ETIL GLICOL	$CH_3COOC_2H_4OC_2H_5$	20,0	150,0-160,0	94	130	2,5	2,3	0,9	23,80	6,50	7,8	2,3	5,2	9,6	132,16	0,974	1,4020	-61,7	2,00	52,0(8)	100(4)
ÉTERES GLICÓLICOS																					
BUTIL GLICOL	$C_4H_9OC_2H_4OH$	6,8	169,0-173,0	96	220	3,4	3,2	2,1	90	COMPL	7,8	3,1	5,9	10,0	118,17	0,902	1,4180	-74,8	0,80	60(8)	39
ETIL GLICOL	$C_2H_5OC_2H_4OH$	39	132,0-136,0	59	143	4,9	4,3	1,1	COMPL	COMPL	7,9	4,5	7,0	11,5	90,12	0,930	1,4060	-76,0	3,80	48,4(8)	78
BUTIL DIGLICOL	$C_4H_9(OC_2H_4)_2OH$	<1	223,0-235,0	85	–	3,9	4,2	1,9	COMPL	COMPL	–	–	–	–	162,2	0,954	1,4230	-68,1	0,02	115,6(7)	–
GLICÓIS																					
MONOETILENO GLICOL	$HOCH_2CH_2OH$	<1	193,0-201,5	–	–	–	–	–	COMPL	COMPL	4,9	7,4	14,6	17,7	62,07	1,115	1,4300	-13,0	0,05	124,0(8)	–
DIETILENO GLICOL	$HOCH_2CH_2OCH_2CH_2OH$	<0,01	242,0-250,0	–	–	–	–	–	COMPL	COMPL	6,1	6,0	11,4	14,2	106,1	1,117	1,4460	-9,99	1,00	143,0(8)	–
OUTROS																					
ÁGUA	HOH	36,0	100,0	–	–	–	–	–	COMPL	COMPL	7,6	7,8	20,7	23,4	18,02	1,000	1,3330	0,0	17,54	–	–

CLORADOS

PRODUTO	FÓRMULA	TAXA DE EVAPOR. (Ac n-But=100)	FAIXA DE DESTIL. °C (760 mmHg)	VISCOSIDADE (cP)	RIGIDEZ DIELÉTRICA (kV)	TAXA DE DILUIÇÃO		SOLUBILIDADE		PARÂMETRO DE SOLUBI. (cal/cm³)½				PESO MOLE-CULAR	DENSI-DADE 20/20 °C	ÍND. DE REFR.	PTO DE CONGEL. °C	PRESSÃO DE VAPOR (mmHg, 20°C)	PTO. DE FULGOR (T.O.C., °C)	LT(3) (ppm)
						Éter	Álcool	Sol. em água %	Água em solu.%	Disper-são	Momento dipolar	Pontes de Hidrog.	Global							
TRICLOROETILENO	$ClCH=CCl_2$	450	86,0-87,0	0,58	30	COMPL	COMPL	0,11	0,033	–	–	–	9,2	131,39	1,464	1,4750	-87	57,8	90(8)	50(4)
CLORETO DE METILENO	CH_2Cl_2	990	39,0-40,0	0,425	25	COMPL	COMPL	1,30	0,198	–	–	–	9,4	84,94	1,310	1,4210	-96,7	355,0	N.A.	100(4)
PERCLOROETILENO	C_2Cl_4	150	120,0-122,0	0,88	*	COMPL	COMPL	0,015	0,010	–	–	–	–	165,83	1,612	1,5050	-22,3	13	N.A.	78
TRICLOROMETANO	$CHCl_3$	28	61,0 - 63	0,55	*	COMPL	COMPL	0,8	–	–	–	–	–	119,5	1,477	1,3600	-63,5	158,3	N.A.	50(4)

NOTES: 1 – Maximum benzene content in accordance with Interministerial Ordinance No. 775, dated April 28, 2004, issued by the Ministry of Labor and Employment and the Ministry of Health. 2 – MB-42 Method (ABNT) – T.O.C. 3 – TL – Tolerance Limit – environmental concentration present during a 48-hour workweek that does not cause exposed individuals, throughout their working life, any signs of illness or changes in their normal state of health, as established by Ordinance 3214/78 of the Ministry of Labor, through Regulatory Standard (NR) No. 15, Annexes 11 and 12. 4 – TLV (Threshold Limit Value) according to the American Conference of Governmental Industrial Hygienists (ACGIH). This is the TLV for a 40-hour workweek. 5 – No TL is established for this product; these values were obtained through comparisons and extrapolations and are provided as an indication to assist in defining exposure limits. 6 – 10% Nitrocellulose solution, ½ sec in CP at 25 °C. 7 – Flash point determined using an open cup. 8 – Flash point determined using a closed cup. "–" – Information not available.