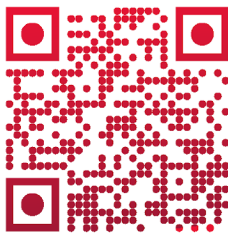


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WATER TREATMENT CHEMICALS

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Boiler Water Treatment | Waste Water Treatment | Corrosion Resistance | Biological Treatment

WATER TREATMENT PORTFOLIO

FATTY AMINE

COMMON NAME	CAS.NO	PRODUCT NAME	APPEARANCE	TOTAL AMINE VALUE, mg KOH/g	% PRIMARY AMINE	IODINE VALUE, gI2/100g	APPLICATIONS
Tallow Amine	61790-33-8	IAL TAD	White to pale yellow Pasty Solid	200 – 215	99.0 Min	35-55	Mineral floating agent in waste water treatment plant
Stearyl Amine	124-30-1	IAL SAD	White Solid / Flakes	200 – 215	99.0 Min	3.0 Max	Mineral floating agent in waste water treatment plant
Octadecyl Amine	124-30-1	IAL SA 90 D	White Solid/ Flakes	204 – 210	99.0 Min	5.0 Max.	Film forming for steam lines & prevents corrosion from carbonic acid
Soya Amine	61790-18-9	IAL SOAD	Colorless to pale yellow liquid	205 – 220	99.0 min	85.0 Min	Film forming in boiler water treatment to reduce the pH and corrosion
Di-Stearyl Amine	112-99-2	IAL DSA	Yellowish pasty solid	100 - 114	-----	85.0 Min	Corrosion inhibitor & mineral floating agent in water treatment plant

FATTY DIAMINES

COMMON NAME	CAS.NO	PRODUCT NAME	APPEARANCE	TOTAL AMINE VALUE, mg KOH/g	DIAMINE CONTENT	IODINE VALUE, gI2/100g	APPLICATIONS
Lauryl Diamine	5538-95-4	IAL LDA	Yellow to amber solid	432 – 456	90.0 Min	-----	Mineral flotation agent
Coco Diamine	61791-63-7	IAL CDA	Yellow to amber Pasty liquid	400 – 445	90.0 Min	12 Max	Flotation collectors for sulfide ores and a biocide
Tallow Diamine	61791-55-7	IAL TDA	Yellow to amber Pasty Solid	325 – 355	90.0 Min	30.00 Min	Flotation agent, water repellent, corrosion inhibitoras & anti-scaling agent
Oleyl Diamine	7173-62-8	IAL ODA	Yellow to amber pasty liquid	320 – 340	90.0 Min	60.0 Min	Flotation agent,mineral flotation agent and water-proofing agent
Distearyl Methyl amine	4088-22-6	IAL DSMA	Yellowish pasty solid	98 - 107	95.0 Min (tertiary amine)	-----	Flotation agent to remove suspended solids and a corrosion inhibitor

QUATERNARY AMMONIUM SALTS

COMMON NAME	CAS.NO	PRODUCT NAME	APPEARANCE	FREE AMINE %	pH	ACTIVE CONTENT%	APPLICATIONS
Coconut Trimethyl ammonium chloride	61789-18-2	IAL QUAT C-50	Yellow liquid	2.0 Max.	5.5 – 8.5 (5%)	49 - 52	Bactericide-algicide, slime stripping agent in water treatment
Behenyl Trimethyl ammonium chloride	17301-53-0	IAL BTAC 50	Colorless to pale yellow liquid	2.0 Max.	5 – 9 (1%)	48 - 52	Slimicidal agents and algaecide for industrial water treatment.
Diocetyl Dimethyl Ammonium chloride	5538-94-3	IAL QUAT D 08/75	Colorless to pale yellowish pasty solid	1.5 Max.	5 – 9 (10%)	74 – 77	Fungicide & bactericide to disinfectant oil field and industrial cooling water systems

FINE CHEMICAL

COMMON NAME	CAS.NO	BRAND NAME	APPEARANCE	COLOR APHA	PURITY, BY GC	APPLICATIONS
3-Methoxypropylamine (MOPA)	5332-73-0	IAL MOPA	IAL MOPA	10 Max	99.5 Min.	Flocculating agent, inhibits corrosion in steam condensate systems and reduces presence of carbon dioxide in water
Tetrabutyl Urea (TBU)	4559-86-8	IAL Tetrabutyl Urea	IAL Tetrabutyl Urea	20 Max	99.0 Min.	Corrosion inhibitor in water treatment, especially in cooling water systems
Morpholine	110-91-8	IAL Morpholine	IAL Morpholine	10 Max	99.5 Min	Corrosion inhibitor in boiler water treatment & increasing pH of boiler feed water