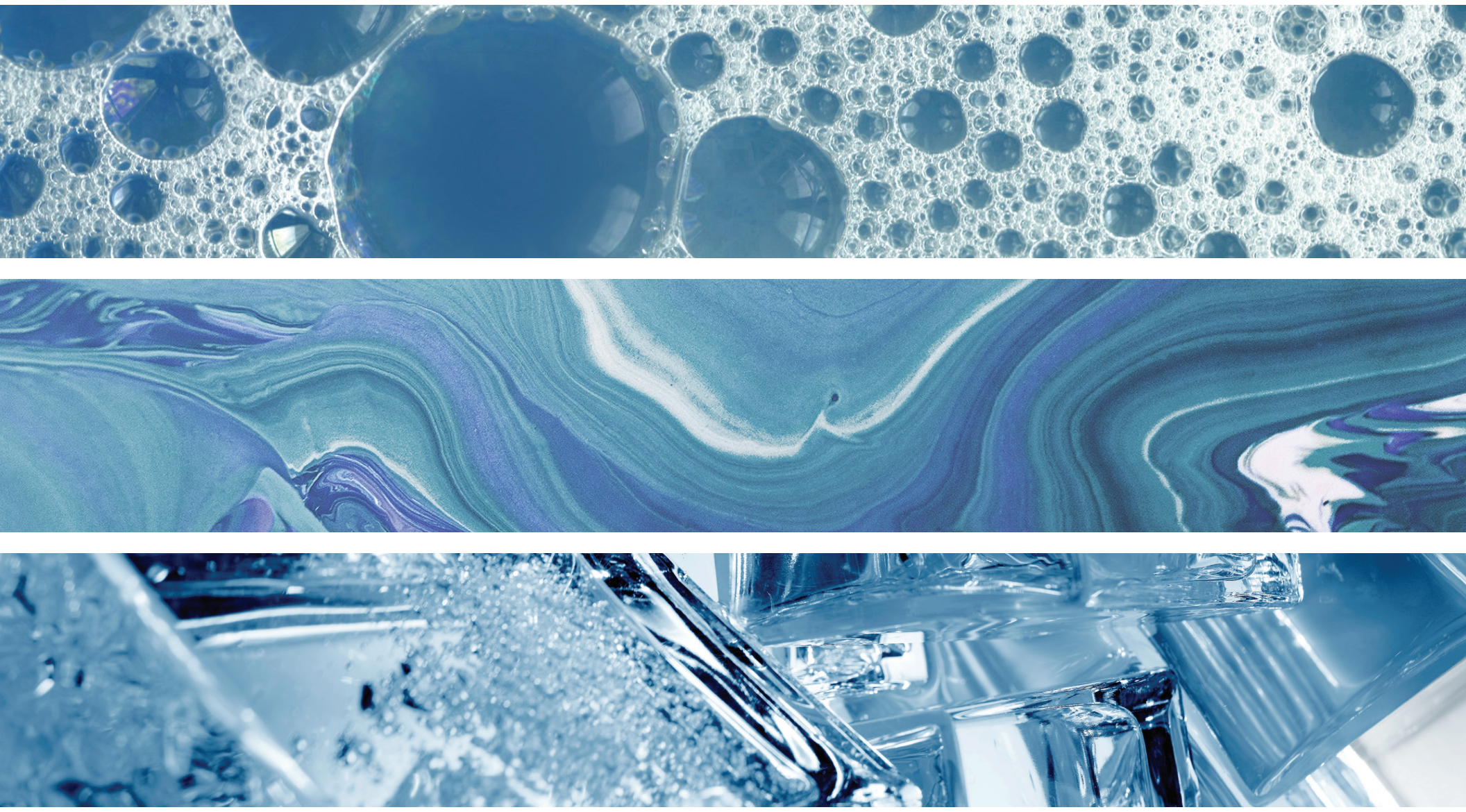
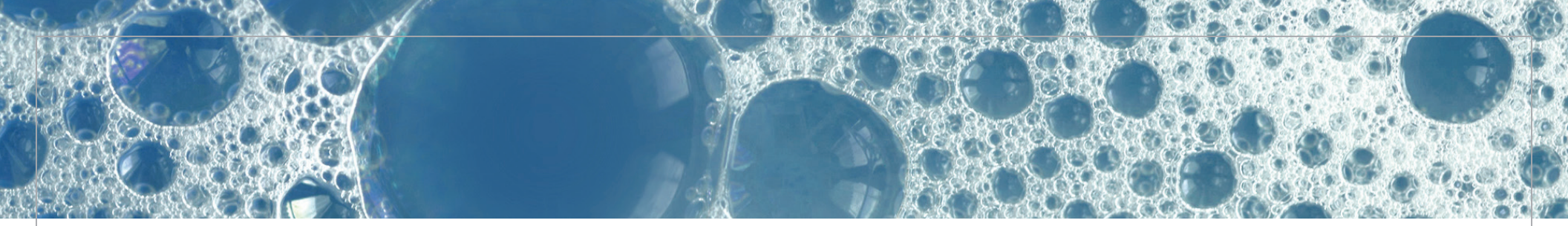


Exxal alcohols
Neo acids
Higher olefins

ExxonMobil building blocks for derivatives

ExxonMobil

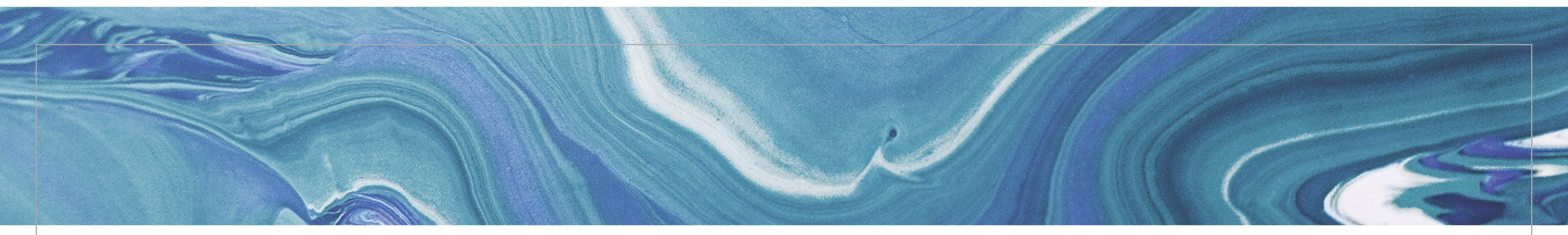


BRANCHED ALCOHOLS

TYPICAL PROPERTIES

EXXAL ALCOHOLS	Chemical name	CAS-No.	Acid value mg KOH/g ASTM 1045*	Boiling range °C ASTM D1078	Color Pt-Co ASTM D5386	Carbonyl number mg KOH/g ASTM E411	Density at 20°C g/cm³ ASTM D4052	Flash point °C ASTM D93	Hydroxyl number mg KOH/g ISO 1843-5	Pour point °C ASTM D5950*	Purity wt% total alcohol ROP 105/BRCP 5287**	Viscosity at 20°C mm²/s ASTM D7042
Exxal 8	Isooctanol	68526-83-0	0.03	186-194	5	0.1	0.831	78	425	< -40	> 99.0	12
Exxal 9	Isononanol	68526-84-1	0.03	204-214	5	0.1	0.835	90	377	< -40	> 99.0	17
Exxal 9S	Isononanol	68526-84-1	0.1 (ASTM D1613*)	201-206	5 (ASTM D1209)	0.1	0.834	90	377	< -40	> 99.0	17
Exxal 10	Isodecanol	68526-85-2	0.03	218-223	5	0.1	0.838	98	350	< -40	> 99.0	21
Exxal 11	Isoundecanol	68551-08-6	0.03	232-239	5	0.1	0.840	108	323	< -40	> 99.0	27
Exxal 13	Isotridecanol	68526-86-3	0.03	255-263	5	0.1	0.846	121	281	< -40	> 98.5	48

* = modified methods
** = EM test methods

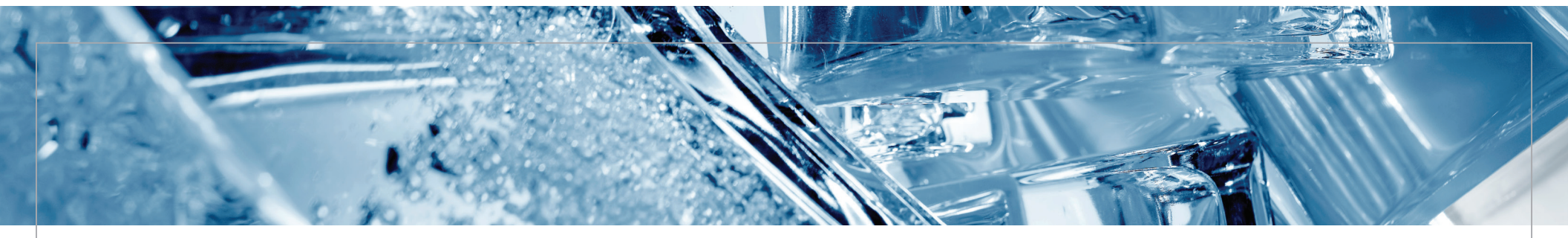


NEO ACIDS

TYPICAL PROPERTIES

NEO ACIDS	Chemical name	CAS-No.	Acid value mg KOH/g ATSM D1980	Boiling range °C ATSM D1078	Color Pt-Co ASTM D5386	Density g/cm³ ASTM D4052	Flash point °C	Water content wt% ASTM E1064	Pour point °C ASTM D5950	Purity - Acid wt% BRCP 4523**	Viscosity mm²/s ASTM D7042
Neopentanoic	2,2,-dimethyl propionic acid	75-98-9	550	160-162	White solid at RT	0.905 at 40°C	> 60 (ASTM D92)	< 0.1	36	> 99.7	1.7 at 60°C
Neodecanoic	Neodecanoic acid	26896-20-8	325	249-265	10	0.911 at 20°C	> 120 (ASTM D93)	< 0.1	< -40	> 99.0	42 at 20°C

* = modified methods
** = EM test methods



BRANCHED HIGHER OLEFINS

TYPICAL PROPERTIES

HIGHER OLEFINS	Chemical name	CAS-NO.	Boiling range °C ASTM D86*	Color Pt-Co ASTM D6045	Specific gravity at 20°C ASTM D4052*	Flash point °C ASTM D56	Peroxides ppm ASTM D2340*	Sulfur content wt ppm ASTM D5453	Olefin content wt%
Trimer	Nonene	68526-56-6***	135 - 146	< 15	0.737-0.747	26	< 10	< 10	> 98.5
Tetramer	Dodecene	68526-58-9	177 - 204	< 30 (LB 2003**)	0.767 - 0.778	55-64	< 10	< 10	> 97

* = modified methods
** = EM test methods
*** = see your local contact for further information