Product information

BUTADIENE-1.2

CAS NO.

590-19-2

APPLICATIONS & PROPERTIES

Butadiene-1.2 is a high-purity allenolefin.

TRANSPORT & LOGISTICS

The product is available in tank- and special containers.

APPLICATION FIELDS

1,2-butadiene can be used as process additive (polymerization regulator) for manufacturing of SBRs, moreover as building block in special syntheses.

SUPPLY DATA

Property	Value	Unit	Method
Butadiene-1.2	min. 97.0	% (m/m)	B2643-AA 04-013 *
cis-Butene-2	max. 2.5	% (m/m)	B2643-AA 04-013 *
Butadiene-1.3	< 0.05	% (m/m)	B2643-AA 04-013 *
C_5-Hydrocarbons	max 0.3	% (m/m)	B2643-AA 04-013 *
Alkynes (total)	max. 300	mg/kg	B2643-AA 04-013 *
Propadiene	max. 100	mg/kg	B2643-AA 04-013 *
Residue after evaporation	max. 500	mg/kg	B2643-AA 04-043 *
p-tert.-Butylcatechole	100 - 150	mg/kg	B2643-AA 04-042 *

* in-house method

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PHYSICAL DATA (LITERATURE DATA)

Property	Value(ca.)	Unit
Mol weight (C_4H_6)	54.09	g/mol
Density referred to air under normal conditions	1.95	
Boiling point at 1013 hPa	10.9	ºC
Critical temperature	178.9	°C
Critical Pressure (at 20°C)	43.6	bar
Specific heat (gaseous at 25 °C)	1.471	kJ/kg K
Specific heat (liquid at boiling point)	2.247	kJ/kg K

DENSITY (LIQUEFIED GAS)

°C	- 10	0	10	20	30	40
g/cm³	0.687	0.675	0.664	0.652	0.639	0.626

VAPOUR Pressure (at 20°C)

°C	-10	0	10	20	30	40	50	60	80
mbar (hPa)	432	662	981	1411	1976	2701	3613	4739	7743

HEAT OF EVAPORATION

°C	0	20	40	60	80
mbar (hPa)	451.45	430.79	408.49	384.15	357.19

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